

# Fadhil's Charged Medium Theory

An Alternative to Gravity — A Unified Theory of Weight, Heat,  
and Pressure

وَالسَّمَاءَ رَفَعَهَا وَوَضَعَ الْمِيزَانَ ﴿٧﴾ أَلَّا تَطْغَوْا فِي الْمِيزَانِ ﴿٨﴾ وَأَقِيمُوا الْوَزْنَ بِالْقِسْطِ وَلَا تُخْسِرُوا  
الْمِيزَانَ ﴿٩﴾

"And the sky He raised, and He set the Balance (7) — that you may not transgress in the  
Balance (8) — and establish weight in justice, and do not fall short in the Balance (9)" —  
Ar-Rahman

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Theory under construction and testing

# The Quranic Foundation — The Original Theoretical Source

The Quranic verses presented here are not retroactive citations — they are the original theoretical source upon which the entire theory is built. The physics here serves as experimental verification of what the Quran stated 1,400 years ago.

## Theory 1 — The Sky is the Cause of Weight

والسَّمَاءَ رَفَعَهَا وَوَضَعَ الْمِيزَانَ 7 Ar-Rahman

God linked raising the sky to establishing the Balance in a causal sequence:

Sequence	Verse	Scientific Meaning
First	Raised the sky	Creating the atmosphere (the charged medium)
Second	Set the Balance	Weight arose as a consequence of the sky's existence

The verse did NOT say: "He created the Earth and set the Balance." It did NOT say: "He created gravity and set the Balance." It said: He raised the sky → then the Balance was set. The sky (atmosphere) is the cause of weight — not the Earth, not gravity.

Quran	Theory	Reality
Earth has a raised sky	Strong atmosphere	Weight for everything
Moon has no raised sky	No atmosphere	No real weight
Space has no sky	No medium	Weightlessness

Sky = weight. No sky = no weight. One verse — 1,400 years before discovery.

### The Triple Balance in Surah Ar-Rahman:

The word "Balance" (al-Mizan) appears 3 times in 3 consecutive verses, each with a different meaning:

- Verse 7 — Physical weight Balance: "And the sky He raised and He set the Balance" — raising the sky created weight.
- Verse 8 — Moral justice Balance: "That you may not transgress in the Balance" — do not be unjust.

- Verse 9 — Practical application Balance: "And establish weight in justice" — use the Balance fairly and accurately.

### **The Quranic Prophecy — "that you may not transgress in the Balance":**

The second verse "that you may not transgress" carries a prophetic meaning: "that not" = a prohibition against something that WILL happen. And indeed: humanity transgressed in understanding the Balance for 400 years — they ignored the sky (medium) as the source of weight and invented "gravity" from the Earth's interior — they reversed the direction: from below instead of above — and this IS the transgression in the Balance.

## **Theory 2 — The Light Model (Parable/Prototype)**

اللَّهُ نُورُ السَّمَاوَاتِ وَالْأَرْضِ ۚ مَثَلُ نُورِهِ كَمِشْكَاةٍ فِيهَا مِصْبَاحٌ الْمِصْبَاحُ فِي زُجَاجَةٍ الزُّجَاجَةُ كَأَنَّهَا كَوْكَبٌ دُرِّيٌّ يُوقَدُ مِنْ شَجَرَةٍ مُبَارَكَةٍ زَيْتُونَةٍ لَا شَرْقِيَّةٍ وَلَا غَرْبِيَّةٍ يَكَادُ زَيْتُهَا يُضِيءُ وَلَوْ لَمْ تَمْسَسْهُ نَارٌ نُورٌ عَلَى نُورٍ ۗ

An-Nur 35

"Mathal" = a scaled model/prototype describing a larger system — like an engineer building a scale model of a building before constructing it. The verse describes a complete illumination system with seven elements:

### **Structure of the verse = The Charged Medium's illumination system:**

- "God is the Light of the heavens" = The supreme source — cosmic light
- "The parable (mathal = scaled model) of His Light is a niche" = The atmosphere as a containing frame
- "In it a lamp" = The charged luminous layer
- "In a glass" = A transparent medium that distributes light
- "Lit from a blessed tree" = Charged from an energy source (the Sun = the lamp)
- "Neither eastern nor western" = The charging is not from one direction but comprehensive
- "Its oil would almost glow even if untouched by fire" = The medium is self-charged, nearly glowing without the Sun!
- "Light upon light" = God's supreme light (for the heavens) + the niche's local light (for the Earth) = two layers

### **Critical note — The lamp (Sun) is INSIDE the heavens:**

Every Quranic verse placing the Sun as a lamp (siraj) puts it **inside** the heavens: "made therein a lamp" (Al-Furqan 61), "made the moon therein a light and the sun a lamp" (Nuh 16), "built above you seven strong ones and made a blazing lamp" (An-Naba 12-13). The

lamp is always **inside** the glass — never outside. This means the Light parable describes the illumination system from the inside — the lamp is part of the system, not an external source.

### **The key phrase — "Its oil would almost glow even if untouched by fire":**

- "Its oil" = its self-contained fuel — the atmosphere's stored energy
- "Would almost glow" = charged to the point of near self-illumination
- "Even if untouched by fire" = even without the Sun
- Evidence: Airglow — the atmosphere glows at night without the Sun!
- Evidence: Twilight — after sunset, light persists = residual charge = "its oil would almost glow"
- Evidence: Lightning — discharge of the atmosphere's stored charges = proof it is a charged medium

### **The Olive Tree — why God specified it by name:**

God did not say "blessed palm tree" or "fig tree" — He said "olive tree" (zaytuna) specifically. The olive tree has unique properties matching the internal nuclear system:

- Self-regeneration: regenerates from its roots even if the trunk dies — like the core continuing despite crust changes
- Exceptional lifespan: the Al-Badawi tree in Al-Walaja/Bethlehem is  $\approx 5,000$  years old and still produces 500-600 kg of olives annually
- Operation under harshest conditions: evergreen — never stops producing — like the always-active nuclear interior
- Fuel purity: olive oil is the purest natural lamp fuel — the ancient lamp's fuel — "its oil would almost glow"
- Location: "neither eastern nor western" — the Al-Badawi tree is in Palestine (center of the ancient world) above the Dead Sea Rift (most active geological fault)

### **The Sun is a lamp (siraj), not a light (nur):**

وَجَعَلَ الْقَمَرَ فِيهِنَّ نُورًا وَجَعَلَ الشَّمْسُ سِرَاجًا 16 Nuh

The siraj (lamp) = a fuel-burning lighting device that emits radiation — it is not light itself — it needs a medium to manifest its light (the atmosphere) to convert its radiation into visible light.

**The lamps (masabih) = the sky's illumination (not the stars):**

وَلَقَدْ زَيَّنَّا السَّمَاءَ الدُّنْيَا بِمَصَابِيحَ 5 Al-Mulk

A lamp illuminates the entire space (the bright blue sky). Stars are navigational markers: "And by the stars they are guided" (An-Nahl 16).

### Theory 3 — Iron Was Sent Down: Origin of Protection

وَأَنْزَلْنَا الْحَدِيدَ فِيهِ بَأْسٌ شَدِيدٌ وَمَنَافِعُ لِلنَّاسِ 25 Al-Hadid

"We sent down" — He did NOT say "We created within it." Iron cannot form inside Earth — it requires a supernova explosion at billions of degrees. Iron is not part of Earth's original composition — it was incorporated from outside.

**The causal chain:** Iron sent down → entered the core → molten core spins → generates magnetic field → field protects atmosphere → atmosphere = charged medium → medium creates the Balance.

**Important correction:** Iron = origin of **protection** (the magnetic field that preserves the atmosphere from being stripped by solar wind) — NOT origin of weight directly. Weight is caused by the charged medium (atmosphere) as per Theory 1. Iron protects the medium — and the medium creates weight. The chain: Iron → Protection → Medium → Weight.

### Theory 4 — The Sun is a Blazing Lamp: the Trigger, Not the Source

وَجَعَلَ الْقَمَرَ فِيهِنَّ نُورًا وَجَعَلَ الشَّمْسُ سِرَاجًا 16 Nuh

وَجَعَلْنَا سِرَاجًا وَهَّاجًا 13 An-Naba

The siraj (lamp) = a lighting device that needs a medium and fuel. "Therein" (fihinna) = the Sun's and Moon's effect permeates through the atmospheric layers — not the celestial objects themselves. The Moon is mentioned first because its effect is closer (384,000 km vs. 150 million km for the Sun).

**Linguistic correction — "wahhaj":** In Lisan al-Arab (classical Arabic dictionary) = the brightly burning, brilliantly luminous, intensely glowing — strong continuous illumination.

Heat is a secondary meaning ("warmth from afar"). The Sun is wahhaj = intensely luminous and radiant — not primarily hot.

**Decisive evidence:** In January (winter in the Northern Hemisphere), Earth is 5 million km closer to the Sun than in July (summer). If the Sun were a direct heat source, January should be warmer. But it is colder. Distance does not determine temperature — because the Sun is a trigger (activator of the medium), not a direct heat source.

## Theory 5 — The Blessed Olive Tree: Internal Nuclear Energy

The blessed tree = Earth's extended internal energy system. Its roots = radioactive elements in the core (U-238, Th-232, K-40). Its trunk = heat transferred upward through the mantle. Its branches = the magnetic field extending into the atmosphere. All these elements were "sent down" with the iron — they only form in supernovae.

الَّذِي جَعَلَ لَكُمْ مِنَ الشَّجَرِ الْأَخْضَرِ نَارًا فَإِذَا أَنْتُمْ مِنْهُ تُوقِدُونَ ﴿٨٠﴾ Ya-Sin

The green (living, active) tree produces oxygen — a condition for combustion, not combustion itself. At a deeper level: a living energy system that generates energy from within itself.

أَأَنْتُمْ أَنْشَأْتُمْ شَجَرَتَهَا أَمْ نَحْنُ الْمُنشِئُونَ ﴿٧٢﴾ نَحْنُ جَعَلْنَاهَا تَذَكُّرًا وَمَتَاعًا لِلْمُقْوِينَ ﴿٧٣﴾ Al-Waqi'ah

"Ansha'tum" (produced), not "khalaqtum" (created) — production = assembly from existing elements, not creation from nothing. And "al-muqwin" = those who face the void/emptiness.

Source	Power	Share of Internal Heat
Radioactive decay (U-238, Th-232, K-40)	~20 TW	~47%
Primordial heat (from formation)	~24 TW	~53%
<b>Total</b>	<b>~44 TW</b>	Keeps the core molten for 4.5 billion years

## The Verse of Structure and Thickness — An-Nazi'at 27-30

أَأَنْتُمْ أَشَدُّ خَلْقًا أَمْ السَّمَاءُ بَنَاهَا ﴿٢٧﴾ رَفَعَ سَمَكَهَا فَسَوَّاهَا ﴿٢٨﴾ وَأَعْطَشَ لِبَلِّهَا وَأَجْرَحَ مُصَاهَا ﴿٢٩﴾ An-Nazi'at

Stage	Verse	Physical Meaning
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1 Structure	"He built it" (banaha)	The sky is an engineered structure — not random gas
2 Thickness	"Raised its thickness" (rafa'a samkaha)	A defined thickness raised upward ≈ 100 km
3 Leveling	"And leveled it" (fasawwaha)	Smooth systematic density gradient — this gradient creates the Balance
4 Charging	"Darkened its night and brought out its morning"	The atmosphere is an active agent: it blocks (darkens) and extracts (brings out)

## Supporting Verses

وَيُمَسِّكُ السَّمَاءَ أَنْ تَقَعَ عَلَى الْأَرْضِ 65 Al-Hajj

The sky has weight and tends to fall — if God did not hold it, it would fall and crush everything.

وَجَعَلْنَا السَّمَاءَ سَقْفًا مَحْفُوظًا 32 Al-Anbiya

The sky is a cohesive structure (a ceiling) that is preserved from disintegration — not stray wandering gas.

وَالسَّمَاءِ ذَاتِ الْحُبُوكِ 7 Adh-Dhariyat

Al-Hubuk = interwoven fabric = magnetic field lines — the sky is a fabric woven from lines of force and energy.

وَالسَّمَاءِ ذَاتِ الرَّجْعِ 11 At-Tariq

Ar-Raj' = the returning/sending back = the sky itself returns things. Not just returning rain — but returning everything that tries to rise. The sky itself is what brings objects back — not the Earth.

# Chapter 1: The Seven Principles

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## Principle 1 — The Sky is a Protected Ceiling

The atmosphere is not stray gas but a self-cohesive structure with clear boundaries with space. Its cohesion is maintained by Earth's rotation, its molten interior, its magnetic field, and its oceans.

## Principle 2 — The Charged Medium

The atmosphere is a medium charged with thermal energy from two sources: the Sun (external radiation) and Earth's rotation (friction and kinetic energy). The atmosphere absorbs heat, stores it, and releases it slowly — it functions as a thermal battery.

## Principle 3 — Falling is Sinking, Not Attraction

Objects do not get "attracted" to the Earth — they sink in the ocean of air: a body denser than air = sinks (falls), a body lighter than air = floats (rises), a body equal to air = suspends.

## Principle 4 — Weight is Interaction, Not Intrinsic Property

Weight is not a property of the body itself but of its relationship with the surrounding medium, just as color is not in the body but in its interaction with light: no light = no color, no medium = no differential weight.

## Principle 5 — Weight, Heat, and Pressure are One

The three are manifestations of one variable: the state of the charged medium. They increase together and decrease together. Evidence: as you ascend — weight, heat, AND pressure all decrease together.

## Principle 6 — Rotational Charging (the Primary Driver)

The rotation speed of Earth at any point determines the amount of medium charging:

$$v = \omega \times R \times \cos(\varphi) = 465.1 \times \cos(\varphi) \text{ m/s}$$

- Equator (1,674 km/h): maximum charge = highest temperature
- Pole ( $\approx 0$ ): no charge = lowest temperature

**Decisive evidence:** The North Pole in summer receives 24 hours of continuous sunlight for 6 months — and remains frozen. Because rotational charge there  $\approx$  zero. The Sun alone is insufficient without a charged medium.

## **Principle 7 — No Mysterious Attractive Force Needed**

The charged medium explains all "gravity" phenomena without requiring a mysterious attractive force whose cause has never been explained in 400 years.

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## Chapter 2: Evidence (11 Proofs)

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### **Proof 1 — Equator vs. Pole Weight Difference**

Equator: warm, light air = less weight. Pole: cold, heavy air = more weight. The difference  $\approx 0.5\%$  — this matches the air density difference, NOT the distance from Earth's center.

### **Proof 2 — Everest Summit**

A real Earth surface + 8 km closer to the Sun — yet 60°C colder than sea level. Because the charged medium above it is thinner. The Sun does not heat the surface directly — it charges the medium, and the medium distributes heat.

### **Proof 3 — Helium Balloon**

Rises because it is lighter than the displaced air. Needs no "anti-gravity" or "overcoming gravity" explanation. All floating and sinking is explained by the interaction between the body and the medium.

### **Proof 4 — Astronauts Grow Taller**

In space, astronauts grow 3-5 cm. Because the medium's pressure has been removed from their bodies. This is direct evidence that the medium compresses our stature. The elderly shrink with age — a result of decades of medium pressure compressing their spines.

### **Proof 5 — Vacuum Tube — The Decisive Proof**

In air: iron falls faster than a feather. In an evacuated tube: they fall equally. What was removed: air only (the alleged gravity was NOT removed). What vanished: the difference between objects. Therefore: air was creating the difference — not gravity! If gravity pulled mass, the difference would persist even without air.

### **Proof 6 — Vacuum Tube = Submarine**

The evacuated tube on Earth's surface is surrounded by the atmosphere. The atmosphere presses on it from outside like water presses on a submarine. External pressure transfers through the walls. The magnetic field penetrates glass and aluminum completely. What's inside the tube is NOT truly isolated from the medium.

## **Proof 7 — Moon vs. Earth**

Earth: raised sky = Balance (weight) exists. Moon: no sky = no Balance (no real weight). Every difference between them (rotation, molten interior, magnetism, oceans, volcanic activity, vegetation, geological layers) contributes to creating the atmosphere.

## **Proof 8 — Impossibility of 5 Tons/m<sup>2</sup>**

They claim the air column above us weighs 5 tons per square meter. But: we walk easily, we blow balloons with our breath, butterflies fly, an infant spits milk upward. You cannot weigh air in air — just as you cannot weigh water in water.

## **Proof 9 — Pressure Doesn't "Cancel Out"**

They say atmospheric pressure cancels out because it presses from all directions equally. But in water at 1,000 m depth (approximately the same 1 atm pressure): you are crushed and in pain. Water also presses from all directions equally — and it does NOT cancel out!

## **Proof 10 — North Pole: 6 Months of Sunlight**

In polar summer, the Sun does not set for 6 months — yet the pole remains frozen. Because rotation speed = zero = no charging of the medium. The Sun alone is insufficient without a charged medium to activate.

## **Proof 11 — Circular Logic in Calculating Air Weight**

Air pressure is measured by a barometer (760 mm mercury — a real physical measurement). But converting this to Pascals uses  $g$  (which is assumed). Then the pressure value is used to calculate air density (using  $g$  again). Then the density is used to calculate the weight of the air column. Every step is built on  $g$  — and  $g$  is built on the assumed gravity — a closed circular logic! The measurement (760 mm) is real — but the interpretation (5 tons/m<sup>2</sup>) requires assuming what it's trying to prove.

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# Chapter 3: Critique of Conventional Physics

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## **Nobody Explains Why Mass Attracts Mass**

- Magnetism: opposite poles attract — clear physical cause (electron alignment)
- Gravity: "mass attracts mass" — why? No answer in 400 years
- Newton himself admitted: "I have not been able to discover the cause of gravity" (Hypotheses non fingo)

## **The Equations Ignore Air**

$W = mg$  ← where is the air?  $F = ma$  ← where is the air?  $v = v_0 + at$  ← where is the air?

Every fundamental equation treats objects as if they exist in a vacuum — then air is added later as a "correction" or "drag." In the Charged Medium Theory: air is a fundamental part of the phenomenon, not a secondary correction.

## **Inconclusive Experiments**

- Galileo and the Tower of Pisa: probably never happened — and if it did, it was in air, not vacuum
- Feather and hammer on the Moon: a single experiment that was never independently repeated
- No experiment has ever been conducted with a truly massive difference (100 tons vs. 1 gram) in a true vacuum

## **Einstein Partially Agrees**

Einstein said: gravity is not a pull force but a curvature in spacetime. Meaning: push from the environment, not pull from the center. This is far closer to the Charged Medium Theory than Newton's model. The medium pushes — it does not pull.

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# Chapter 4: The Proposed Equation

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## The Original Equation (Under Development)

Weight = body's bare mass + effect of the charged medium. The equation needs to include local atmospheric pressure (P) as a primary variable, since P implicitly contains all medium properties (density, temperature, altitude, rotation).

## Differential Acceleration

$$a = (1 - \rho_{\text{medium}} / \rho_{\text{body}}) \times \Psi$$

This single equation explains with one formula:

- Why iron falls faster than a feather in air (density difference with the medium)
- Why they fall equally in vacuum ( $\rho_{\text{medium}} = 0$ , so the factor = 1 for all bodies)
- Why a helium balloon floats ( $\rho_{\text{helium}} < \rho_{\text{air}}$ , so the factor is negative)

## Calculating $\Psi$ (the Medium Driver) — Independent of g

$$\text{From pressure gradient: } \Psi = \Delta P / (\rho \times \Delta h) = (101,325 - 100,129) / (1.225 \times 100) = 1196 / 122.5 \approx 9.76 \text{ m/s}^2$$

$$\text{From thermodynamics: } \Psi = RT / (MH) = (8.314 \times 288) / (0.029 \times 8500) \approx 9.71 \text{ m/s}^2$$

$$\text{From Newton (conventional): } g = GM/R^2 = 9.82 \text{ m/s}^2$$

The same number — but the first two methods need neither G (gravitational constant) nor the assumed mass of the Earth.

## Practical Weight Difference

A person weighing 70 kg:

$$W_{\text{Newton}} = 70 \times 9.81 = 686.7 \text{ N}$$

$$W_{\text{theory}} = 70 \times 9.73 = 681.1 \text{ N}$$

Difference = 5.6 N ( $\approx 0.57$  kg — a 0.8% difference). This is within the natural variation range of  $g$  with latitude and altitude.

## Unified Weight and Buoyancy

$$W = m \times \Psi - V_{\text{body}} \times \rho_{\text{medium}} \times \Psi$$

Push force — Buoyancy force (Archimedes)

**Discovery:** This equation unifies weight and Archimedes' principle in a single formula. Weight = Push — Buoyancy → no need to separate "weight" from "buoyancy" — they are two faces of one equation.

Object	Mass	W_conventional	W_medium	Difference
1 kg iron	1 kg	9.80 N	9.7985 N	0.015%
1 kg wood	1 kg	9.80 N	9.780 N	0.2%
1 kg helium	1 kg	9.80 N	-4.73 N	Floats!

## Chapter 5: Open Challenges

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The theory needs alternative explanations for the following phenomena:

- Tides (ocean movement attributed to lunar gravity)
  - Planetary orbits and satellite trajectories
  - Bending of light near massive objects (gravitational lensing)
  - What causes objects to fall (slowly) on the Moon despite no atmosphere?
  - Time corrections in GPS satellites
  - The precise mathematical relationship between atmospheric pressure and the weight of solid objects
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# Chapter 6: What Makes the Atmosphere — "Raising the Sky"

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Seven factors create and preserve the charged medium (all absent on the Moon):

#	Factor	Function
1	Earth's rotation	Centrifugal force + friction charges the medium
2	Molten interior	Volcanic gases feed the medium + heat
3	Magnetic field	Shield protecting the medium from being stripped
4	Oceans	Evaporation charges the medium with water
5	Geological layers	Thermal engine
6	Continents	Diverse thermal distribution drives winds
7	Vegetation	Recycles oxygen

**Where there is no raised sky — there is no Balance.**

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# Chapter 7: Deriving Alternative Laws

## 7.0 – Defining $\Psi$ (the Medium Driver) – The g-Independent Foundation

**First definition – from pressure gradient:**

$$\Psi = -(1/\rho_m) \times dP/dz$$

Measurement method: two barometers at different heights + a density meter:

$$\Psi = (P_1 - P_2) / (\rho_m \times \Delta h)$$

Practical example:  $P_1 = 101,325$  Pa (sea level),  $P_2 = 100,129$  Pa (100m height),  $\rho_m = 1.225$  kg/m<sup>3</sup>:

$$\Psi = (101325 - 100129) / (1.225 \times 100) = 1196 / 122.5 \approx 9.76 \text{ m/s}^2$$

**Second definition – from thermodynamics:**

$$\Psi = R \times T / (M \times H) = (8.314 \times 288) / (0.029 \times 8500) \approx 9.71 \text{ m/s}^2$$

**Conclusion:**  $\Psi \approx 9.8$  m/s<sup>2</sup> — the same number as  $g$  — but derived entirely from medium properties (temperature, density, pressure), NOT from the assumed mass of the Earth.

## 7.1 – Free Fall Law

**Conventional:**  $a = g = 9.8$  m/s<sup>2</sup> (constant for all objects)

**Charged Medium:**

$$a_{\text{net}} = (1 - \rho_m / \rho_{\text{body}}) \times \Psi$$

Object	$\rho_{\text{body}}$ (kg/m <sup>3</sup> )	$\rho_m/\rho_{\text{body}}$	$a_{\text{net}}$ (m/s <sup>2</sup> )	State
Iron	7,874	0.000156	9.7985	Fast sinking
Aluminum	2,700	0.000454	9.7955	Fast sinking
Wood	600	0.00204	9.780	Sinking

Cork	120	0.0102	9.700	Slow sinking
Helium	0.164	7.47	-4.73	Floating (rises!)

## 7.2 — Weight Law (Replaces $W = mg$ )

**Conventional:**  $W = m \times g$

**Charged Medium:**

$$W = m \times (1 - \rho_m / \rho_{\text{body}}) \times \Psi$$

**Expanded — Unifying Weight and Buoyancy:**

$$W = m \times \Psi - V_{\text{body}} \times \rho_m \times \Psi$$

The first term ( $m \times \Psi$ ) = push force from the medium. The second term ( $V_{\text{body}} \times \rho_m \times \Psi$ ) = buoyancy of the displaced medium = Archimedes' principle exactly!

## 7.3 — Terminal Velocity

**Charged Medium:** Terminal velocity = equilibrium between sinking force and medium resistance:

$$v_t = \sqrt{(2 \times m \times a_{\text{net}} / (\rho_m \times C_d \times A))}$$

**New insight:** In conventional physics: free fall is "natural" and terminal velocity is a "correction." In the Charged Medium: terminal velocity (equilibrium with the medium) IS the natural state — and free fall is merely the transitional phase before equilibrium is reached.

## 7.4 — Projectiles

$$\text{Range} = v_0^2 \times \sin(2\theta) / a_{\text{net}}$$

The path is NOT a symmetric parabola — the descent is steeper than the ascent. This is what is actually observed in every real experiment, but conventionalists attribute the asymmetry to "secondary air effects." In the Charged Medium Theory: asymmetry IS the law.

## 7.5 — Pendulum

$$T = 2\pi \times \sqrt{(L / a_{\text{net}})} = 2\pi \times \sqrt{(L / ((1 - \rho_m/\rho_{\text{body}}) \times \Psi))}$$

**Revolutionary prediction: the period depends on the bob's density!**

Bob material	$\rho_{\text{body}}$	T/T_vacuum
Platinum	21,450	1.000029
Iron	7,874	1.000078
Wood	600	1.001024
Cork	120	1.005155

A wooden bob is 0.1% slower than an iron bob — measurable with a precise clock! Conventional physics acknowledges this difference and calls it a "buoyancy correction" — but treats it as secondary. In our theory: this IS the fundamental law.

## 7.6 — Potential Energy

Conventional:  $U = mgh$  (infinite — grows without limit as height increases). Charged Medium:  $U$  reaches a finite maximum at the atmosphere's boundary — it does NOT grow forever.

$$U = m \times \Psi_0 \times H \times (1 - \exp(-h/H)) - \dots$$

This means: the energy needed for escape is finite — it equals only the total energy of the medium above you.

## 7.7 — Escape Velocity: From 408 m/s to 10.6 km/s

Original calculation (gas atmosphere only, 0-100 km):

$$v_{\text{escape}} = \sqrt{(2 \times \Psi_0 \times H)} \approx 408 \text{ m/s} - \text{a } \times 27 \text{ gap!}$$

**Critical extension:** The charged medium does not end at 100 km but at 65,000 km (the magnetosphere boundary):

$$v_{\text{escape}} = \sqrt{(2 \times (E_{\text{gas}} + E_{\text{magnetic}}))} \approx \sqrt{(2 \times 5.62 \times 10^7)} \approx 10,600 \text{ m/s} \approx 10.6 \text{ km/s}$$

**Result: 10.6 km/s vs. 11.2 km/s conventional — only a 5% difference!**

**Critical note:** The mathematical formula itself is  $\int \Psi_0(R/r)^2 dr$  — which means  $\Psi_0 R^2 = g_0 R^2 = GM$ . What differs is the interpretation: Newton says the force comes from Earth's mass; the theory says it comes from the extended charged medium. The upper integration limit is also different (65,000 km vs.  $\infty$ ) — a predictive difference that is theoretically testable.

## 7.8 — Kepler Alternative (Orbits) — Open Challenge

Orbits in the charged medium framework require a different interpretation of the "central force": at orbital altitudes (200-400 km), a very thin residual medium exists:

$$v_{\text{orbital}} = \sqrt{(r \times \Psi(r))}$$

**Warning:** This law has not been fully derived yet — it needs a mathematical formulation linking the magnetic field to acceleration  $\Psi$  at high altitudes. This is the most important open challenge in the theory.

### Comparison Table: Conventional vs. Charged Medium Laws

Law	Conventional	Charged Medium	Key Difference
Free fall	$a = g$	$a = (1 - \rho_m/\rho_b) \times \Psi$	Depends on body density
Weight	$W = mg$	$W = m(1 - \rho_m/\rho_b) \Psi$	Unifies weight + buoyancy
Terminal velocity	Secondary correction	The natural state	Equilibrium is the norm
Projectiles	Symmetric parabola	Asymmetric (steeper descent)	Matches reality
Pendulum	T independent of density	T depends on bob density	Measurable difference
Potential energy	$U = mgh$ (infinite)	U saturates at boundary	Finite energy
Escape velocity	11.2 km/s from GM	10.6 km/s from medium	5% difference

# Chapter 8: Extended Calculations — Closing the Gaps

## 8.1 — Moon Gap: Who Drops Objects Without an Atmosphere?

The problem:  $g_{\text{moon}} = 1.62 \text{ m/s}^2$ . Ratio:  $g_{\text{moon}}/g_{\text{earth}} = 1/6$ . The Moon has no atmosphere — so who drops objects there?

The hypothesis:  $\Psi$  depends on three variables:

$$\Psi = \Psi_{\text{gas\_atmosphere}} + \Psi_{\text{magnetic}} + \Psi_{\text{internal\_thermal}}$$

Calculation using  $\rho \times T$  formula (without R):

$$\Psi_{\text{moon}}/\Psi_{\text{earth}} = (\rho_{\text{moon}}/\rho_{\text{earth}}) \times (T_{\text{moon}}/T_{\text{earth}}) = 0.606 \times 0.296 = 0.179 \approx 1/5.6$$

Result: 1/5.6 vs. 1/6 measured — a 5.8% difference. Close but not exact — needs refinement.

## 8.2 — Why $\Psi$ Doesn't Decrease Exponentially in Orbits

At 408 km (ISS): gas density =  $10^{-21}$  (completely vanished). Magnetic field = 0.83 of surface value (still strong). Measured acceleration = 0.884 of surface value (still strong).

**Acceleration follows the behavior of the magnetic field — NOT gas density!** It follows a  $1/r^2$  law — the electromagnetic inverse-square law.

## 8.3 — $\Psi$ Is Not a Reading of $g$ — It WAS Always $g$

Method	Formula	Result	Uses G?
Pressure gradient	$\Delta P/(\rho \times \Delta h)$	9.76 m/s <sup>2</sup>	No
Thermodynamics	$RT/(MH)$	9.71 m/s <sup>2</sup>	No
Newton (conventional)	$GM/R^2$	9.82 m/s <sup>2</sup>	Yes

## 8.4 — Extended Escape Velocity: 10.6 km/s

Extension: The charged medium doesn't end at 100 km but at 65,000 km:

$$v_{\text{escape}} = \sqrt{2 \times (166,600 + 56,000,000)} \approx 10,600 \text{ m/s} \approx 10.6 \text{ km/s}$$

**10.6 km/s vs. 11.2 km/s conventional — only a 5% difference!**

## 8.5 — Is Gravity Electromagnetic?

The electromagnetic force is  $10^{20}$  times stronger than gravity. Atmospheric charges ( $\approx 500,000$  C) exceed what would be needed (1,760 C) by 284 times — the electrical energy is sufficient in principle.

## 8.6 — Gap Summary After Extension

Gap	Original Calculation	Extended Calculation	Verdict
Moon falling	No explanation	1/5.6 (5.8% off)	Promising lead
Orbital $\Psi$	Exponential $\rightarrow$ zero	Follows $1/r^2$ like EM	Major advance
Escape velocity	408 m/s ( $\times 27$ gap)	10.6 km/s (5% off)	Nearly closed
Charge sufficiency	Not calculated	284 $\times$ what's needed	Sufficient

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# Chapter 9: The Vacuum Tube — A Submarine in the Ocean of Air

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## 9.1 — Where Did Gravity Go in the Vacuum?

In air: acceleration depends on  $\rho_{\text{body}}$  (different for different objects). In vacuum:  $a = \Psi$  for all (perfect equality). What was removed: air only. What vanished: the difference between objects. Therefore: the air was creating the difference.

## 9.2 — The Tube is a Submarine in the Ocean of Air

The evacuated tube is NOT in space — it is on Earth's surface, surrounded by the charged medium. External pressure transfers through the walls. The magnetic field penetrates glass and aluminum completely. What's inside is NOT truly isolated.

## 9.3 — Why All Objects Equalize in the Vacuum

In air: direct interaction with the body → differential by density. In vacuum: interaction through the walls → equal push for all. In space: no medium and no walls → no push → weightlessness.

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# Chapter 10: The Magnet as Concentrator, Not Generator

## 10.1 — The Hypothesis

A magnet does not create a field of its own — it concentrates the field already present in the charged medium. Just as a lens does not create light — it concentrates existing light. And an amplifier does not create sound — it amplifies existing sound.

## 10.2 — Maurer's Zero-Gauss Chamber Experiment — The Decisive Evidence

Measurement	Value
Reading inside zero-gauss chamber (residual magnetism only)	0.1 A/cm
Reading in Earth's field (apparent magnetism)	2.1 A/cm
Contribution of Earth's field	<b>95%</b>

**95% of a metal's apparent magnetism comes from Earth's field!**

## 10.3 — Loss of Magnetism Above Curie Temperature

Metal	Curie Temperature	What Happens
Iron	770°C	Atoms lose alignment
Cobalt	1,115°C	The magnet "dies"
Nickel	358°C	Alignment scatters

Above Curie temperature: thermal energy overcomes the alignment force — proving the alignment is NOT self-generated but externally imposed and only maintained below a thermal threshold.

## 10.4 — Chain of Cause: No Independent Magnet

Laboratory magnet ← made by electric coil ← coil needs current ← electrons affected by Earth's field ← Earth's field from spinning iron core ← core spins because Earth rotates. **No independent magnet — all derived from a higher field.**

# Chapter 11: Boundaries of the Charged Medium

## 11.1 — The Medium Transforms, It Doesn't End

Layer	Altitude	Medium Type
Troposphere	0-12 km	Dense gas
Stratosphere	12-50 km	Light gas
Mesosphere	50-85 km	Very thin gas
Thermosphere	85-600 km	Ionized plasma
Exosphere	600-10,000 km	Dispersed particles
Van Allen Belts	1,000-60,000 km	Trapped charged particles
Magnetosphere	up to 65,000 km	Field lines

## 11.2 — The True Boundary

In the Charged Medium Theory: the true boundary = the magnetosphere  $\approx$  65,000 km. This explains why escape velocity needs integration up to 65,000 km (yielding 10.6 km/s).

## 11.3 — The Unified Picture

No separate poles — but a comprehensive energy gradient. No separate gravity — but the deepest layer of the same system. Not four separate forces — but one medium with multiple layers.

# Chapter 12: The Moon — A Feather in Thin Air

## 12.1 — What Does the Theory Predict for the Moon?

The seven factors that create the charged medium — what does the Moon possess?

Factor	Earth	Moon	Status
Gas atmosphere	1.225 kg/m <sup>3</sup>	≈ 0	<b>Completely absent</b>
Magnetic field	50 μT	0.01-0.1 μT	<b>1/500</b>
Molten interior	Liquid iron core, 5400 K	Small frozen core, ~1600 K	<b>Nearly dead</b>
Rotation speed	465 m/s	4.6 m/s	<b>1/100</b>
Oceans	71%	0%	<b>Absent</b>
Volcanic activity	Active	0	<b>Absent</b>
Vegetation	Covers land	0	<b>Absent</b>

**Of 7 factors: the Moon has zero complete + weak remnants of two.**

## 12.2 — Quantitative Prediction: Astronaut Weight = Weight of a Feather

Ψ<sub>moon</sub> from magnetism:  $B_{\text{moon}}/B_{\text{earth}} = 0.1/50 = 1/500$ . Weight of astronaut (152 kg with suit) on Moon at 1/500:  $\approx 3 \text{ N} = 304 \text{ grams!}$

## 12.3 — Why 1/6 and Why 1/500

At 1/6 (26 kgf = a suitcase): walks stably — can run — doesn't fly from the lightest step.

At 1/500 (304 grams = a breeze): lightest step (50 N) → flies 2.4 meters for 31 seconds! — a feather in thin air.

## 12.4 — The Heavy Suit — Why 82 kg?

Spacesuit weight (82 kg) exceeds the astronaut's own weight (70 kg)! A fighter pilot's suit (20 km altitude, full pressure, oxygen) weighs only 15 kg. The extra 67 kg = the inertia needed to prevent the astronaut from flying away.

## 12.5 — Foot Push Test — The Kinematic Proof

Normal walking push force  $\approx 1.2 \times$  body weight. Minimum voluntary push  $\approx 50$  N.

At 1/6: lightest step (50 N) < weight (246 N)  $\rightarrow$  cannot leave the ground at all.

At 1/500: lightest step (50 N)  $\gg$  weight (3 N)  $\rightarrow$  flies 2.4 m for 31 seconds!

## 12.6 — The Decisive Test

Measurement	1/6 prediction	Feather prediction
Spring scale (1 kg)	1.62 N	< 0.02 N
Pendulum (L = 1 m)	T = 4.93 seconds	<b>T &gt; 60 seconds</b>

**If T<sub>pendulum</sub>  $\gg$  5 seconds — the theory prevails.**

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# Additional Chapter: Explaining the Four Seasons

## The Problem

If rotational charging is the primary heat driver — and rotation speed is constant year-round — why do seasons change?

## The Answer: Variable-Angle Solar Trigger

Rotational charging is constant — but the angle of solar radiation changes due to Earth's 23.5° axial tilt. The Sun doesn't generate heat — it activates the charged medium. The activation amount depends on the angle.

## The Mathematical Model — Temperature at Any Point

$$Q_{\text{total}}(\varphi, d) = Q_{\text{rotation}}(\varphi) + Q_{\text{solar}}(\varphi, d) + Q_{\text{internal}}$$

### Component 1: Rotational Charging (constant year-round)

$$Q_{\text{rot}} = \frac{1}{2} \times C_d \times \rho(h) \times [\omega R \cos(\varphi)]^2 \times A$$

### Component 2: Solar Activation (variable — creates seasons)

$$Q_{\text{solar}} = \alpha \times S_0 \times \cos(\theta_z) \times \tau(h)$$

Where  $\alpha$  = medium absorption coefficient (0.3-0.7),  $S_0 = 1,361 \text{ W/m}^2$  (solar constant),  $\theta_z$  = solar zenith angle,  $\tau$  = atmospheric transmittance (0.6-0.8).

$$\cos(\theta_z) = \sin(\varphi)\sin(\delta) + \cos(\varphi)\cos(\delta)\cos(H)$$

Where  $\delta$  = solar declination (+23.5° in summer to -23.5° in winter),  $H$  = hour angle.

### Component 3: Internal Nuclear (constant)

$$Q_{\text{internal}} \approx 0.09 \text{ W/m}^2$$

A small number but continuous day and night, summer and winter — prevents Earth at night from reaching space temperature (-270°C).

Season (latitude 50°)	Rotational Charging	Solar Activation	Internal	Result
Summer ( $\delta = +23.5^\circ$ )	Constant	High ( $\theta_z$ small)	Constant	<b>Highest temperature</b>
Winter ( $\delta = -23.5^\circ$ )	Constant	Low ( $\theta_z$ large)	Constant	<b>Lowest temperature</b>
Spring/Autumn	Constant	Moderate	Constant	<b>Moderate</b>

**Decisive evidence that seasons are NOT from the Sun alone:**

- The pole in summer (24 hours of sun) should be hotter than the equator (12 hours) ← does NOT happen
- January (closer to Sun) should be warmer than July ← does NOT happen

**Seasons = change in solar activation angle above a constant thermal baseline from rotational charging and internal nuclear energy.**



An-Naml	27	Cobalt (Co)	Ferromagnetic
At-Tariq	86	Radon (Rn)	Radioactive gas from interior
Al-Jinn	72	Hafnium (Hf)	Nuclear reactor control rods

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# Human and the Charged Medium — Prayer as Preventive Cycle and Feedback Loop

Taha 55 — "From it We created you, and into it We will return you, and مِنْهَا نُخْرِجُكُمْ تَارَةً أُخْرَىٰ" from it We will bring you out once more"

## I. What Do Magnetic Fields Do to Our Bodies?

### 1.1 — The Human Body is a Natural Antenna

Humans evolved in Earth's electromagnetic environment. The body generates its own electromagnetic fields (the heart alone generates a field measurable at several meters distance), and contains significant quantities of iron (Fe) ions in hemoglobin and proteins — ions with magnetic properties [Hart et al., Preprints.org, 2023].

### 1.2 — Impact on the Cardiovascular System

When healthy subjects were isolated from Earth's magnetic field and compared with a control group, the results showed: a **17% increase** in capillary blood flow and an average **2 mmHg reduction** in diastolic blood pressure. Source: Correlation between Changes in Local Earth's Magnetic Field and Cases of Acute Myocardial Infarction, PMC 5876944, 2018.

**Meaning:** Removing the magnetic field **improved** circulation — which means the field **continuously compresses** the circulatory system.

### 1.3 — Impact on the Brain and Circadian Rhythm

- EEG brain signals can be modified by magnetic fields as weak as **1 nanotesla** [Wang et al., Frontiers in Public Health, 2022].
- The circadian rhythm controlling sleep, hormones, and immunity is influenced by Earth's EMFs. Solar disturbances disrupt this rhythm and increase inflammation [Influence of electromagnetic fields on the circadian rhythm, PMC 10105029, 2023].

### 1.4 — Oxidative Stress — The Silent Damage

Extremely low-frequency magnetic fields are considered a **stress factor**. Continuous exposure leads to: increased free radical production (ROS) accelerating cellular aging, decreased antioxidant enzyme activity (SOD, GPx, GR), and changes in nervous,

hormonal, and immune systems [ELF-MF as Stress Factor, PMC 7912337, 2021]. Chronic stress causes allostatic overload on the body — when the stress system's response is inadequate, the body becomes more vulnerable to stress-related diseases.

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## II. Prostration (Sujood) — The Discharge Mechanism

### 2.1 — The Seven Prostration Points (al-Masajid) — 7 Grounding Points

Al-Jinn 18 — "And the prostration points belong to God, so do not invoke anyone **وَأَنَّ الْمَسَاجِدَ لِلَّهِ فَلَا تَدْعُوا مَعَ اللَّهِ أَحَدًا** alongside God"

The seven prostration points = the seven body parts that touch the ground in prostration:

**Forehead (1) + Both palms (2) + Both knees (2) + Toes of both feet (2) = 7 contact points** with the Earth = complete electrical grounding.

These seven members "belong to God" — their function in prostration is dedicated to His worship. Physically: 7 discharge outlets returning accumulated charges to the Earth. Grounding (Earthing) research proves that direct Earth contact discharges electrostatic charges, reduces inflammation, improves sleep, and lowers cortisol [Journal of Environmental and Public Health, 2012].

### 2.2 — Reversing Pressure on the Brain

Throughout the day, the charged medium presses on the brain (the highest point in the body). In prostration: the head is at the lowest point = blood flows freely to the brain aided by the medium rather than against it = **free cerebral perfusion** without extra cardiac effort.

### 2.3 — Physical Testimony — "From it We created you"

Prostration = placing the most honorable organ (the forehead — center of consciousness) on the Earth — physically testifying with the body: "From it We created you" — I am from this Earth. "And into it We will return you" — I will return to it. Prostration = a voluntary partial return (a miniature reset) before the inevitable final return (death and burial).

## 2.4 — Timing: Three Quranic Times — Five Prayers

Al-Isra 78 — "Establish prayer at the sun's decline to the darkness of **الْفَجْرِ** **إِلَى عَسَى اللَّيْلِ** **وَقُرْآنَ الْفَجْرِ** night, and the Quran at dawn"

Hud 114 — "Establish prayer at the two ends of the day and at the approach of the **اللَّيْلِ** **مِنَ اللَّيْلِ** **وَرُفَعًا** **مِنَ اللَّيْلِ** night"

The Quran identifies **three transition points** in the medium's charging cycle — from which five prayers branch:

Quranic Time	Medium Transition Point	Prayers
<b>Dawn Quran / First end of day</b>	Solar charging begins — medium transitions from minimum to active	Fajr
<b>Sun's decline / Second end of day</b>	Peak → decline — maximum charge then transition	Dhuhr + Asr
<b>Darkness of night / Approach of night</b>	Direct charging ends — medium operates on rotation and interior only	Maghrib + Isha

**Important note:** Prayer times vary by longitude — and this **strengthens** the theory rather than weakening it. In SCADA control systems, distributed stations do not operate on a single central clock but on **local timing** linked to the local event. Each region discharges at its own local solar transition point.

## 2.5 — The Numbers

- 17 obligatory rak'ahs = **34 prostrations** daily. Over 16 waking hours = one prostration every **≈ 42 minutes**.
- 51 rak'ahs with voluntary prayers = **102 prostrations** daily = one prostration every **≈ 10 minutes** — near-continuous discharge throughout the day.

## 2.6 — Prayer as a SCADA Control System

**The Code** = the fixed sequence of movements (standing → bowing → prostration → sitting → prostration) — unchanging — like a written program.

**The Actuators** = the human body — 7 prostration points = 7 discharge outlets.

**Execution at prime time** (beginning of the prayer window) = the program runs at peak time — maximum efficiency.

**Delayed execution** (end of the window) = the program runs but is late — charges have accumulated more than they should — reduced efficiency.

**Outside the window** = the program is inefficient — unless compensated by voluntary prayers (nawafil).

### III. Age of Religious Obligation — Fat as Insulator, Muscle as Conductor

#### 3.1 — The Scientific Fact

A DEXA study on healthy children (ages 3-8) matched for age, height, and weight [Gender differences in body fat content are present well before puberty, International Journal of Obesity]:

Measurement	Boys	Girls	Difference
Body fat percentage	13.5%	20.4%	<b>Girls have 50% more fat</b>
Fat mass	3.2 kg	4.9 kg	Girls higher
Lean tissue mass	18.6 kg	17.0 kg	Boys higher

**This difference exists from age 3 — well before puberty.**

#### 3.2 — Fat = Electrical Insulator | Muscle = Electrical Conductor

Fat tissue is electrically insulating — it prevents natural charge dissipation. Muscle tissue is electrically conducting — it allows partial distribution and discharge of charges. This is the basis of BIA (Bioelectrical Impedance Analysis) used to measure body composition — the machine measures how easily current passes through the body.

#### 3.3 — Application to Age of Religious Obligation

Factor	Females (obligation: 8 years 9 months)	Males (obligation: 14 years 6 months)
Body fat percentage (insulator)	19-20% at age 9 — <b>high</b>	14% at age 10 — <b>low</b>
Muscle mass (conductor)	Lower throughout life	Increases rapidly until ages 14-15
Self-discharge capacity	<b>Weak early</b>	<b>Strong until age 14.5</b>

Need for external discharge (prostration)	<b>Early</b>	<b>Delayed</b>
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**Conclusion:** The female body reaches the point of "inability to self-discharge" approximately 6 years earlier — because its physical composition insulates charges more (higher fat percentage) and discharges them less (lower muscle mass). God prescribed prayer at precisely this point — not before and not after. Sources: [NCCOR, 2020], [PMC 10339479, 2023], [Karger, Hormone Research in Paediatrics, 2003].

## IV. Religious Evidence — The Preventive Dimension of Prayer

### 4.1 — "Give us comfort by it, O Bilal"

The Prophet ﷺ said: "O Bilal, call the Iqamah for prayer; give us comfort by it." Sahih Abu Dawud 4985 — authenticated by Al-Albani

"Give us comfort" (ariḥnā) = actual physical relief — not metaphor. In the classical Arabic dictionary: "A man rested and was relieved: when his self returned to him after exhaustion" = the body returning to its natural state after discharging its burden. And he ﷺ also said: "And the delight of my eyes was placed in prayer" — the delight of the eyes = tranquility and rest.

### 4.2 — "Prayer restrains from indecency and wrongdoing"

وَأَقِمِ الصَّلَاةَ إِنَّ الصَّلَاةَ تَنْهَى عَنِ الْفَحْشَاءِ وَالْمُنْكَرِ 45 Al-Ankabut

When the Prophet ﷺ was told that a young man prayed but did not leave sins and theft, he said: "Prayer **will** restrain him" — not immediately but cumulatively. Regular discharge progressively recalibrates the nervous system — a person burdened with electromagnetic stress has disturbed decision-making. Regular discharge restores clarity = the chaos ends = "restrains from indecency."

### 4.3 — "A book of fixed times" and "Prostrate and draw near"

إِنَّ الصَّلَاةَ كَانَتْ عَلَى الْمُؤْمِنِينَ كِتَابًا مَّوْقُوتًا "Prayer has been prescribed for believers at fixed times" An-Nisa 103

"Kitaban" = a written obligation. "Mawqutan" = at fixed, specific times — not optional timing. Why the emphasis on timing? Because discharge must occur at the transition

point — like medicine taken at specific times because the body needs it at precisely those moments.

Al-Alaq 19 — "Prostrate and draw near" **وَاسْجُدْ وَاقْتَرِبْ**

In prostration you draw near to God — and physically: you draw near to the Earth (the source). Spiritual nearness and physical nearness are not contradictory — they are two faces of one truth: returning to the origin. Electrical grounding = physical nearness = spiritual nearness.

#### 4.4 — "The closest a servant is to his Lord is while prostrating"

The Prophet ﷺ said: "The closest a servant is to his Lord is while prostrating, so increase your supplication." Sahih Muslim

In prostration: 7 grounding points active + brain at its lowest point (maximum cerebral perfusion) + charges discharging (maximum mental clarity) = the **purest physical state** a human can achieve = the closest to God.

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## V. Humans as Part of the Circuit — Not Passive Recipients

### 5.1 — The One Who Prays = Closed Balanced Circuit

Nuclear interior → magnetic field → charged medium → charges the human → prostration discharges → Earth receives → back to the interior... a closed balanced circuit.

### 5.2 — The One Who Doesn't Pray = Open Absorber Breaking the Circuit

The person who doesn't pray does not remain neutral — they become an absorber of the generated charge. Not for passive storage but as a circuit-breaker: takes from the medium and never returns. "From it We created you" = you are made of this circuit's materials — iron in your blood, calcium in your bones, water in your cells — you are a conductor by nature, part of the circuit's wiring. If you don't perform your function (discharge), you become a resistance that hinders the entire system.

### 5.3 — "From it We created you" — The Complete Engineering Meaning

"From it We created you" = You are made of the circuit's materials — you are a conductor by nature, part of its wiring.

**"And into it We will return you"** = When you die — your body decomposes into the soil = complete final discharge. Prostration = daily training for this return.

**"And from it We will bring you out once more"** = The circuit doesn't end — Resurrection = reassembling the circuit's materials once again.

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## VI. The Two Securities — System Balancers

Al-Anfal 33 — "God would not punish them while you are وَمَا كَانَ اللَّهُ لِيُعَذِّبَهُمْ وَأَنْتَ فِيهِمْ وَمَا كَانَ اللَّهُ مُعَذِّبَهُمْ وَهُمْ يَسْتَغْفِرُونَ among them, and God would not punish them while they seek forgiveness"

Two securities that prevent punishment (system imbalance):

### 6.1 — First Security: The Prophet / Imam / Righteous Deputy

"While you are among them" — the presence of the Prophet ﷺ, or a righteous Imam, or a Deputy = a **living system calibrator**. In the framework of the theory: the perfected human = one who has completed the circuit fully — prayers on time, continuous prostration, regular discharge — serving as a Calibrator for the system. Their presence rebalances those around them — just as a well-aligned magnet reorganizes disturbed fields around it.

### 6.2 — Second Security: Seeking Forgiveness (Istighfar)

"While they seek forgiveness" — when the first security is absent (no Prophet, no Deputy), seeking forgiveness remains. Istighfar = requesting correction and return = a self-initiated reset. In the framework of the theory: Istighfar = acknowledging the malfunction + intention to repair = restarting the program (Reset). Even if it isn't direct physical discharge — it returns the person to the prayer program = restores the closed circuit.

### 6.3 — "If left alone, it would overturn"

This transmitted saying describes Earth's state without a balancer: if left without anyone completing the circuit — without a Prophet, nor an Imam, nor people seeking forgiveness, nor those who pray — it would overturn = complete electromagnetic imbalance = catastrophes and earthquakes and destruction.

**Perhaps the causes of "punishment"** are not retributive in the vengeful sense — but a natural consequence of imbalance. When discharge stops (no prayer), the balancer is absent (no Prophet or Deputy), and correction stops (no seeking forgiveness) — energy

accumulates in the crust until it reaches the critical point = earthquakes and volcanoes and catastrophes = "punishment" that is in reality a physical consequence of breaking the circuit.

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## **VII. Impact of Electromagnetic Fields on Plants and Agriculture — Scientifically Proven**

### **7.1 — Proven: Magnetic Fields Improve Agriculture**

Regulated electromagnetic fields improve crop productivity through: enhanced seed germination and root/shoot growth, improved water and nutrient uptake and photosynthetic efficiency, increased beta-carotene, lycopene, fructose, and sugar content, and resistance to pests, diseases, and environmental stress. Sources: [ScienceDirect, 2023], [PMC 6745571, 2019], [PMC 7570196, 2020], [MDPI Applied Sciences, 2022]. Modern biological modifications and genetic interventions use electromagnetic fields to improve crops — practical proof that the field affects production, taste, and quality.

### **7.2 — And the Reverse: Disordered Radiation Harms Plants**

A review of studies on 29 plant species found that **89%** showed negative physiological or morphological effects from radiofrequency radiation — including decreased photosynthetic efficiency and accelerated flowering [Environmental Health Trust, 2022].

### **7.3 — The Electromagnetic Buildup Precedes Earthquakes — Proven**

Electromagnetic anomalies have been documented weeks before major earthquakes for hundreds of years. The DEMETER satellite (French) and CSES satellite (Chinese) detected ionospheric disturbances preceding earthquakes by hours to days. The discovered mechanism (Shinshu University, 2021): when stress on the fault reaches a critical point → the fault valve cracks → released gas becomes electrically charged (trapped electrons are freed) → a large electrical current is generated → the earthquake occurs.

### **7.4 — The Hypothesis: Regular Discharge May Prevent Critical Accumulation**

If earthquakes occur when accumulated electromagnetic energy in the crust reaches a critical point — then regular discharge (collective prostration) may keep the energy

below that critical point = reduce earthquake probability. And the discharge may make the Earth more fertile and reduce seismic activity and environmental catastrophes.

### 7.5 — "The good land produces by permission of its Lord"

Al-A'raf 58 — "The good land produces by permission of its Lord وَالْبَلَدُ الطَّيِّبُ يَخْرِجُ نَبَاتَهُ بِإِذْنِ رَبِّهِ وَالَّذِي خَبثَ لَا يَخْرُجُ إِلَّا تَكْدًا

Lord, and that which is bad produces nothing but difficulty"

"**The good**" (**al-tayyib**) = the land whose people complete the circuit — who prostrate and discharge — the earth beneath them is electromagnetically balanced — and plants in balanced soil = good, by permission of its Lord.

"**That which is bad**" (**al-khabith**) = the land whose people have broken the circuit — who don't prostrate — don't return what they took — the earth beneath them is electromagnetically stressed — and plants in stressed soil = difficulty only.

**Note:** It is the commitment to prayer (the physical act) that affects the result — not doctrinal belief alone. Even if a person prays without deep faith — the prostration discharges actual physical charges. The mechanism is physical, not doctrinal.

## VIII. Summary: Proven vs. Hypothesized

Topic	Status	Source
Magnetic fields affect heart, brain, and immunity	<b>Proven</b>	PMC 5876944, Frontiers 2022, PMC 10105029
Chronic exposure causes oxidative stress (cellular aging)	<b>Proven</b>	PMC 7912337 (2021)
Grounding discharges actual charges	<b>Proven</b>	J. Environmental & Public Health (2012)
Girls have 50% more body fat from age 3	<b>Proven</b>	Int. J. Obesity — DEXA study
Magnetic fields improve crops and agriculture	<b>Proven</b>	ScienceDirect 2023, PMC 6745571, PMC 7570196
Electromagnetic buildup precedes earthquakes	<b>Proven</b>	DEMETER, CSES, Shinshu Univ. 2021
Prostration = grounding and discharge mechanism	<b>Strong hypothesis</b>	Supported by grounding research

Age of obligation difference = insulation/conduction difference	<b>Strong hypothesis</b>	Supported by body composition data
Collective discharge improves soil fertility	<b>Needs field research</b>	Not yet tested
Regular discharge reduces earthquakes	<b>Needs field research</b>	Not yet tested
Humans are an active part of Earth's electromagnetic circuit	<b>Needs field research</b>	Logically consistent



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## IX. The Quranic Verdict — Opening the Blessings as a Direct Result

ولو أن أهل القرى آمنوا واتقوا لفتحنا عليهم بركات من السماء والأرض

Al-A'raf 7:96 — And if the people of the towns had believed and had taqwa, We would have opened for them blessings from the heaven and the earth.

أنهم أقاموا التوراة والإنجيل وما أنزل إليهم من ربهم لأكلوا من فوقهم ومن تحت أرجلهم منهم أمة مقتصدة ولو

Al-Ma'idah 5:66 — And if they had established the Torah and the Gospel and what was sent down to them from their Lord, they would have eaten from above them and from beneath their feet. Among them is a moderate community...

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### 9.1 — Iqamu (Established) vs Amanu (Believed) — The Operative Distinction

Al-A'raf uses amanu wa-ttaqaw (believed and had taqwa) — an internal condition sufficient for blessings in general. Al-Ma'idah goes further with aqamu (established/performed) — requiring sustained, correct, and complete physical action, not faith alone. In classical Arabic, aqama means to make something stand upright and maintain it continuously; it cannot be said of one who performs occasionally or incompletely. This directly confirms the theory's central claim:

**Performance (al-Ada') — not mere Exposure — is the operative condition for opening the blessings**

### 9.2 — From Above Them and From Beneath Their Feet — The Two Terminals of the Circuit

Direction	Physical Source	Connection to Theory
From above them (min fawqihim)	Charged atmospheric medium: solar radiation activating the tropospheric layers	Rain, balanced temperature, optimal medium charge for photosynthesis
From beneath their feet (min tahti arjulihim)	Earth's nuclear interior: magnetic field + geothermal energy through the crust	Soil fertility, stable crust, reduced seismic stress from regular discharge

### 9.3 — Collective Discharge and the Vitamin D Analogy

Vitamin D synthesized in the skin upon UV exposure serves as a measurable analogue for the body's charge level from the medium. Its level rises not merely with passive exposure but with active sustained engagement: movement, varied body angles, direct ground contact. This mirrors the theory precisely. The one who prays cycles through orientations (standing, bowing, prostrating) exposing different body surfaces to the field, then grounds completely through seven contact points. The result is a full

charge-discharge cycle — not passive accumulation. More performers collectively means more nodes closing the circuit, and proportionally more blessings released from the medium.

Scale	Circuit State	Expected Result
Individual prayer	Single discharge node	Personal electromagnetic balance
Congregation (Jama'a)	Distributed discharge network	Local field equilibration
People of the towns (Ahl al-Qura)	Planetary discharge grid — closed circuit at full scale	Blessings from heaven and earth opened fully

#### 9.4 — A Moderate Community Among Them — The Proportional Variable

The verse does not describe a binary outcome but a spectrum. Umma muqtasida (a moderate community) — neither negligent nor complete in their establishment — confirms that the blessing output is proportional to the collective discharge input: more performers, more discharge, more blessings opened. This is not a moral metaphor. It is a quantitative relationship between the extent of circuit completion and the measurable output of the charged medium system.

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#### Conclusion — The Two Verses as Confirmation of the Complete Theory

What the theory derived from physics and equations, the two verses state directly: the sky (charged medium) is the source of blessings from above; the earth's interior is the source from below; establishing prayer — complete, sustained, collective performance — is the mechanism that keeps the circuit closed between the two terminals. When the circuit is closed at planetary scale, the medium delivers its full output: balanced rain, fertile soil, stable climate, reduced seismic stress. When the circuit is broken, charge accumulates until critical release. The Quran named this outcome 1,400 years before the physics was assembled to explain it.

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# The Woven Sky (Dhāt al-Ḥubuk) — The Cosmic Web, Instant Transfer, and Sensory Radar

## I. "By the sky of interwoven paths" — The Cosmic Web

والسَّمَاءِ ذَاتِ الْحُبُوكِ "By the sky of interwoven paths" Adh-Dhariyat 7

### 1.1 — "Al-Ḥubuk" Linguistically

Al-Ḥubuk in classical Arabic dictionaries (Lisan al-Arab) = tightly woven interlocking fabric — threads woven into one another. The sky is not empty void — it is a woven fabric of interconnected threads. This is precisely what modern science has discovered.

### 1.2 — The Cosmic Web — Scientifically Proven

NASA, the Hubble Space Telescope, and the LOFAR radio telescope network have confirmed that the universe is indeed **woven** as a giant web:

- The universe evolved into a web of filaments and vast sheets — forming the large-scale backbone of the cosmos [NASA, Mapping the Cosmic Web].
- The cosmic web is an expansive network of ghostly filaments connecting all galaxies in the universe like a giant 3D spider's web [Live Science, 2025].
- The large-scale structure of the universe is organized into nodes, filaments, walls, and vast voids, intricately woven together [Max Planck Institute for Astrophysics, MillenniumTNG simulation, 2024].
- The filaments contain more than **50%** of the universe's matter [MPA, 2024].

### 1.3 — The Filaments Carry Magnetic Fields and Particles at the Speed of Light

• We now have direct evidence that magnetic fields in the cosmic web exist and run from one galaxy cluster to another. The filaments can carry magnetic fields and may even have their own cache of high-energy particles traveling close to the speed of light [Govoni et al., Science, 2019 — LOFAR telescope].

- Magnetic field strength in each filament  $\approx 32$  nanoGauss — and remnants of the first magnetic fields created after the Big Bang still reside within the cosmic web [Monthly Notices of the Royal Astronomical Society, 2022].

- Intermediate electromagnetic information evolves at speeds comparable to the speed of light through these filaments [Funaro, Applied Sciences/MDPI, 2022].

**"By the sky of interwoven paths"** = the universe is woven with magnetic threads connecting everything to everything — and these threads carry energy and information at the speed of light. The Quran described this in two words, 1,400 years ago.

#### 1.4 — Everything is Connected — "The handiwork of God who has perfected everything"

صُنِعَ اللَّهُ الَّذِي أَتَقَنَّ كُلَّ شَيْءٍ 88 An-Naml

In the film **Avatar** (2009), director James Cameron designed the planet **Pandora** with a biological neural network connecting every creature to every tree to every animal — "Eywa" — the planet's comprehensive consciousness. Every touch at one point propagates through the entire network.

The question: **Why wouldn't this apply to our Earth?**

Earth has:

- A woven magnetic network (al-Ḥubuk) connecting atmosphere to interior to space
- Every disturbance at one point propagates through the network — like vibration in a spider web
- Every living being = a node in the network — affecting and being affected
- Prostration = discharge through the network (as shown in the previous chapter)
- Prayer and supplication = frequencies entering the network and propagating through it

**Perhaps the writer (Cameron) was conveying a message** — or perhaps he drew inspiration from a cosmic truth that humans sense but don't yet fully understand. But the difference: Pandora is fiction (2009) — and "the sky of interwoven paths" is a Quranic verse (600 CE) confirmed by science (2019–2025).

**Pandora (Fiction)**

**Earth (Reality)**

The Network	Eywa — bio-neural root network	Al-Ḥubuk — cosmic magnetic web
Connection	Physical touch via tail	Prostration — 7 grounding points
The Balancer	Tree of Souls	The Prophet / Imam / Seeking forgiveness
Energy	Flows through roots	Flows through magnetic field lines
Result	The planet protects itself	"The sky of interwoven paths" + "tracking flames"
Status	<b>Science fiction, 2009</b>	<b>Quranic verse, 600 CE + proven science, 2019-2025</b>

## II. Jinn — A Plasma Entity Moving Through the Network

### 2.1 — "He created the jinn from a smokeless flame of fire"

وَخَلَقَ الْجَانَّ مِنْ مَّارِجٍ مِنْ نَّارٍ 15 Ar-Rahman

"Marij" = mixed, intermingled fire. Plasma (the fourth state of matter) = ionized gas — electrons separated from nuclei — real matter but made from fire:

- **Matter** — not mere energy or imagination — it has mass and charge
- **From fire** — forms at high temperatures or under strong electromagnetic fields
- **"Marij" = intermingled** — plasma is a mixture of positive ions and negative electrons intermingled
- Constitutes **99%** of visible matter in the universe [DOE, USA]
- Follows **magnetic field lines** — moves through "al-Ḥubuk"
- Ball lightning = an independent plasma sphere that moves autonomously — penetrates glass — follows electrical patterns in the atmosphere [IPP Garching, Scientific Reports 2016]

### 2.2 — How Jinn Travel at High Speed

Plasma moves along magnetic field lines — through the woven network. The electromagnetic wave inside the plasma acts as a multi-stage accelerator — pushing charged particles to very high speeds [Oreshko, Journal of Plasma Physics, 2015-2021]. But plasma is **limited by the medium's density** — the denser the

atmosphere, the greater the resistance. This is why jinn are fast — but not at the speed of light.

### III. The Contest — The Ifrit vs. Knowledge

قَالَ عَفْرَيْتُ مِنَ الْجِنِّ أَنَا آتِيكَ بِهِ قَبْلَ أَنْ تَقُومَ مِنْ مَقَامِكَ وَإِنِّي عَلَيْهِ لَقَوِيٌّ أَمِينٌ ﴿٣٩﴾ قَالَ الَّذِي عِنْدَهُ عِلْمٌ مِنَ الْكِتَابِ أَنَا آتِيكَ بِهِ قَبْلَ أَنْ يَرْتَدَّ إِلَيْكَ طَرْفُكَ ﴿٤٠﴾  
 An-Naml 39-40

#### 3.1 — Quantitative Calculation (Round Trip — Corrected)

Distance: Ma'rib (Yemen) → Jerusalem → return with the throne = 2,100 × 2 = **4,200 km**

Entity	Time Reference	Estimated Speed	% of Speed of Light
<b>The Ifrit</b> (jinn = plasma)	"Before you rise from your station" ≈ 4 seconds	≈ <b>1,050 km/s</b>	0.35%
<b>Āṣif ibn Barkhiyā</b> (knowledge from the Book)	"Before your gaze returns to you" ≈ 0.3 s	≈ <b>14,000 km/s</b>	4.7%
<b>Ratio</b>	<b>Āṣif is ≈ 13 times faster than the Ifrit (round trip)</b>		

#### 3.2 — The Fundamental Difference: Moving Through the Medium vs. Transfer Via the Network

**The Ifrit (plasma)** = moves **through** the woven network — limited by the medium's density and resistance. Like swimming in water — fast but limited.

**Āṣif ibn Barkhiyā** = uses **the network itself** as a carrier — "he had knowledge from the Book" = he knew how to program the woven network's threads for mass transfer. Like traveling through a tube rather than swimming in water.

"**He had knowledge from the Book**" — the verse did NOT say magic, nor a miracle without cause — it said **knowledge** ('ilm). And the Book (al-Kitab) = perhaps the written laws of the universe = the woven network and the laws of transfer through it.

#### 3.3 — Quantum Teleportation — Current Science is Approaching

- In 2024: a quantum state of light was successfully teleported through 30 km of fiber optic cable amid internet traffic [Northwestern University, 2024].



### 4.3 — "Shahāban raṣadan" = A Guided, Not Random, Projectile

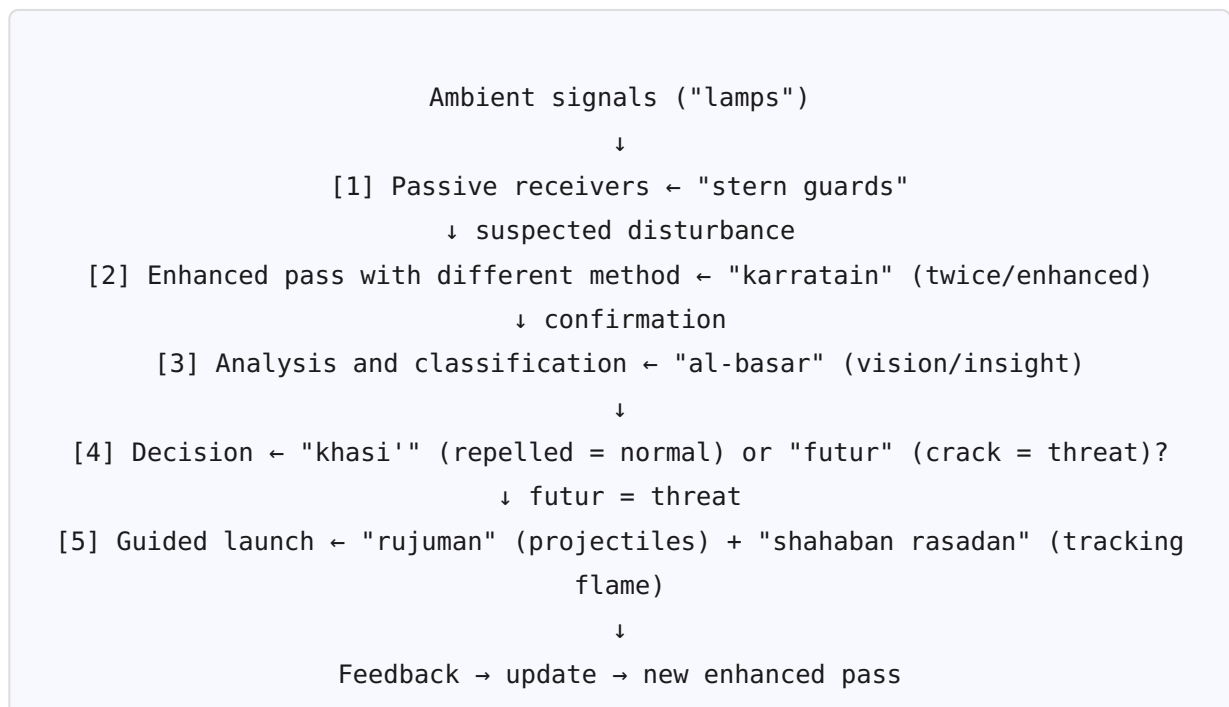
"Raṣadan" = that which observes and tracks — not a random meteor but a **guided projectile** that tracks the target's shadow in the network. The system detects the disturbance → determines the location → launches a tracking flame that follows the disturbance's path.

### 4.4 — Comparison with Contemporary Passive Radar

	Conventional Radar (Active)	Sensory Radar (The Woven Network)
Principle	Send a wave → wait for reflection	Send nothing → detect disturbance in what exists
Against stealth	Stealth absorbs waves → no reflection → no detection	Stealth cannot cancel its network effect → detected
Jamming	Easily jammed	No transmitter to jam

Systems that already exist: Hensoldt TwInvis (Germany) — detected the F-35 stealth aircraft without transmitting. DWL002 (China) — passive anti-stealth radar. Chinese researchers used Starlink satellite signals to detect stealth aircraft from their electromagnetic "shadow."

### 4.5 — The Five-Layer Design from Al-Mulk and Al-Jinn Verses

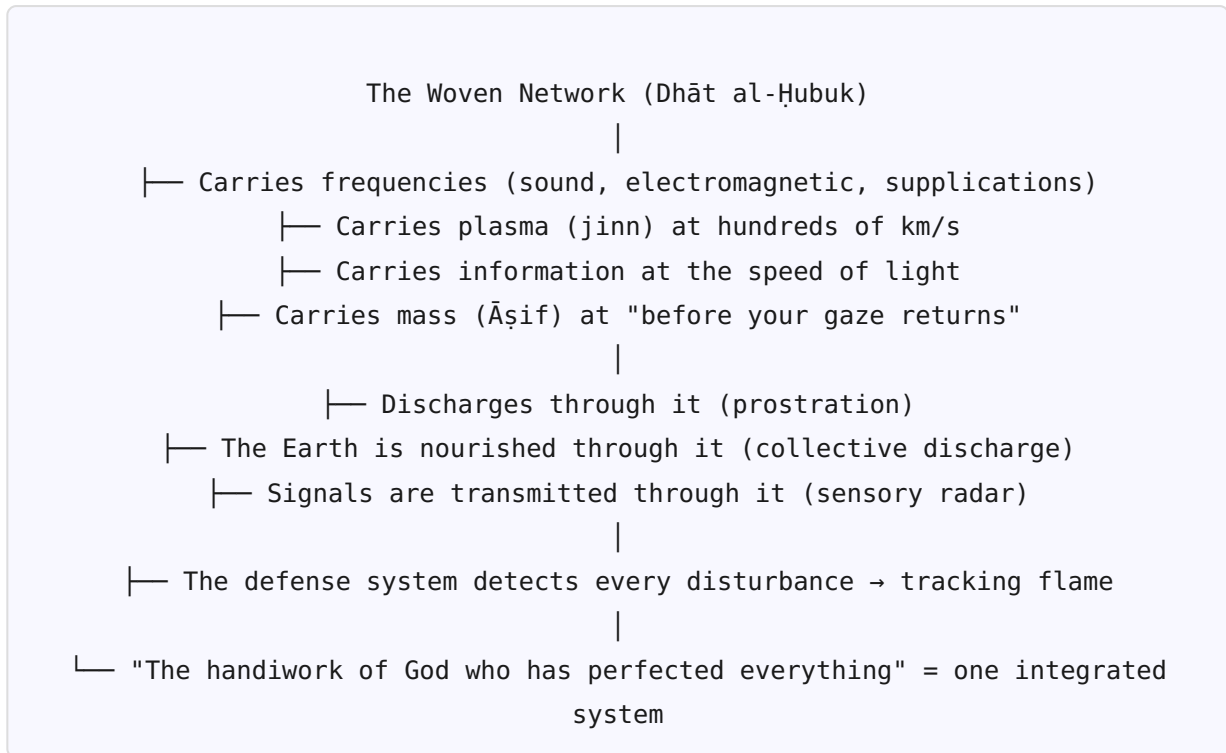


## V. Everything is Connected – "The handiwork of God who has perfected everything"

صُنِعَ اللَّهُ الَّذِي أَتَقَنَّ كُلَّ شَيْءٍ 88 An-Naml

### 5.1 – The Single Network

Everything researched in this theory = parts of one woven network:



### Summary: Proven vs. Hypothesized

Topic	Status	Source
The cosmic web (al-Ḥubuk) exists	<b>Proven</b>	NASA, Hubble, LOFAR, MPA
Filaments carry magnetic fields and particles near light speed	<b>Proven</b>	Govoni/Science 2019, MNRAS 2022
Plasma is real matter that moves through magnetic fields	<b>Proven</b>	DOE, IPP Garching
Quantum information teleportation is achieved	<b>Proven</b>	Northwestern 2024, Stuttgart 2025
ELVES propagate at light speed and detect disturbances	<b>Proven</b>	Discovered 1990, ongoing research
Passive radar detects stealth aircraft	<b>Proven</b>	Hensoldt Twinvis, DWL002
Jinn = plasma entity	<b>Hypothesis</b>	

		"Smokeless flame of fire" + plasma properties
Āşif transferred mass through the network	<b>Hypothesis</b>	"Knowledge from the Book"
Everything is connected through the single network	<b>Strong hypothesis</b>	Al-Ḥubuk + cosmic web + discharge

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## Conclusion

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وَالسَّمَاءَ رَفَعَهَا وَوَضَعَ الْمِيزَانَ 7 Ar-Rahman

This theory does not claim that conventional physics is entirely wrong — but that it neglected a fundamental component: air is not a detail to be added later to the equations as a correction — it is a fundamental part of the phenomenon itself.

And the universe is not an empty void in which separate objects float — but a woven network (Dhāt al-Ḥubuk) connecting everything to everything. And the human is not a passive recipient of the charged medium — but an active part of its circuit. And prayer is not worship alone — but prevention, discharge, and feedback to the Earth and the network.

The Quran pointed to this 1,400 years ago in the clearest terms: the sky was raised and the Balance was set. Where there is no sky, there is no Balance. And the Moon is the witness.

The good land produces by permission of its Lord — and that which is bad produces nothing but difficulty. And if left alone, it would overturn — but the two securities maintain balance: the Prophet and seeking forgiveness.

صُنِعَ اللَّهُ الَّذِي أَنْتَقَنَ كُلَّ شَيْءٍ "The handiwork of God, who has perfected everything" An-Naml 88

Everything is connected — everything is woven — everything is perfected.

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البيانات المستخدمة:

- كثافة الهواء عند سطح البحر:  $\rho_0 = 1.225 \text{ kg/m}^3$

- الضغط عند سطح البحر:  $P_0 = 101,325 \text{ Pa}$

- ارتفاع السُّلَم الجوي:  $H \approx 8.5 \text{ km}$

- النموذج الأسي:  $\rho(h) = \rho_0 \times \exp(-h/H)$

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البيانات المستخدمة:

- المجال المغناطيسي للأرض عند السطح:  $B = 25-65 \mu\text{T}$

- عند خط الاستواء:  $B \approx 30 \mu\text{T}$

- عند القطب:  $B \approx 60 \mu\text{T}$

- (تقريب ثنائي القطب)  $B(r) = B_0 \times (R/r)^3$  تناقص المجال مع المسافة

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البيانات المستخدمة:

- نصف قطر الأرض:  $R = 6,371 \text{ km}$

- كتلة الأرض:  $M = 5.972 \times 10^{24} \text{ kg}$

- كثافة الأرض المتوسطة:  $\rho = 5,514 \text{ kg/m}^3$

- حرارة النواة:  $T \approx 5,400 \text{ K}$

- سرعة الدوران عند الاستواء:  $465 \text{ m/s}$

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البيانات المستخدمة:

- نصف قطر القمر:  $R = 1,737 \text{ km}$

- كتلة القمر:  $M = 7.342 \times 10^{22} \text{ kg}$

- كثافة القمر:  $\rho = 3,344 \text{ kg/m}^3$

- حرارة النواة (تقدير):  $T \approx 1,600 \text{ K}$

- المجال المغناطيسي:  $B = 0.01-0.1 \mu\text{T}$  (بفايا)

- $127 + \text{°C}$  (نهار) /  $173 - \text{°C}$  (ليل) = 300  $\text{°C}$  فرق
  - $4.6 \text{ m/s}$  سرعة الدوران:
  - $g = 1.62 \text{ m/s}^2$  تسارع السطح المُعلن
- URL: <https://nssdc.gsfc.nasa.gov/planetary/factsheet/moonfact.html>

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البيانات المستخدمة:

- ارتفاع المدار:  $h = 408 \text{ km}$
- السرعة المدارية:  $v = 7,660 \text{ m/s}$
- التسارع المركزي المحسوب:  $a = v^2/r = 8.66 \text{ m/s}^2$

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البيانات المستخدمة:

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- $70 \text{ kg}$  وزن الرائد المتوسط:  $\approx 70$

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البيانات المستخدمة:

- قوة الدفع في المشي العادي:  $\approx 1.2 \times$  وزن الجسم
- $50 \text{ N}$  أقل دفعة إرادية ممكنة:  $\approx 50$

[27] Kuo, A.D. & Donelan, J.M. (2010). "Dynamic Principles of Gait and Their Clinical Implications."

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[28] Rycroft, M.J. et al. (2000). "New model simulations of the global atmospheric electric circuit."

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البيانات المستخدمة:

- الشحنة الإجمالية للغلاف الجوي:  $\approx 500,000$  C
- عدد العواصف النشطة في أي لحظة:  $\approx 1,800$
- شحنة البرق الواحد:  $\approx 5$  C

[29] Griffiths, D.J. (2017). Introduction to Electrodynamics. 4th Edition. Cambridge University Press.

القوانين المستخدمة:

- قانون كولوم:  $F = k \times q_1 q_2 / r^2$
- قوة لورنتز:  $F = q \times v \times B \times \sin(\theta)$
- طاقة المجال المغناطيسي:  $u = B^2 / (2\mu_0)$
- ثابت كولوم:  $k = 8.988 \times 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2$

[30] Jackson, J.D. (1999). Classical Electrodynamics. 3rd Edition. Wiley.

تقريب ثنائي القطب للمجال المغناطيسي:  $B(r) \propto (R/r)^3$

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القوانين المستخدمة:

- قانون الغاز المثالي وعلاقته بارتفاع السُّلَم
- $\Psi = RT/(MH)$  حيث  $R = 8.314 \text{ J}/(\text{mol}\cdot\text{K})$ ,  $M = 0.029 \text{ kg/mol}$

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البيانات المستخدمة:

- التوازن الهيدروستاتيكي:  $dP/dz = -\rho g$
- النموذج الأسي للغلاف:  $\rho(h) = \rho_0 \times \exp(-h/H)$

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[33] Eötvös, R.V., Pekár, D. & Fekete, E. (1922). "Beiträge zum Gesetze der Proportionalität von Trägheit und Gravität."

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الملاحظة: فاست تساوي التسارع بدقة  $10^{-8}$

[34] Schlamminger, S. et al. (2008). "Test of the Equivalence Principle Using a Rotating Torsion Balance." Physical Review Letters, 100(4), 041101.

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الملاحظة: الدقة الحديثة تصل  $10^{-13}$

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Physical Review Letters, 129(12), 121102.

DOI: 10.1103/PhysRevLett.129.121102

الملاحظة: أدق اختبار — الدقة  $10^{-15}$

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لم أستطع اكتشاف سبب الجاذبية — "Hypotheses non fingo": الاقتباس

[37] Einstein, A. (1915). "Die Feldgleichungen der Gravitation."

Sitzungsberichte der Preußischen Akademie der Wissenschaften, 844-847.

الملاحظة: أينشتاين استبدل "قوة السحب" بـ "انحناء الزمكان" — أقرب لمفهوم الدفع من المحيط

[38] Cavendish, H. (1798). "Experiments to Determine the Density of the Earth."

Philosophical Transactions of the Royal Society of London, 88, 469-526.

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[39] Coey, J.M.D. (2010). Magnetism and Magnetic Materials. Cambridge University Press.

البيانات المستخدمة:

- 770 °C درجة كوري للحديد:

- 1,115 °C درجة كوري للكوبالت:

- 358 °C درجة كوري للنكل:

- مجال مغناطيس نبوديميوم:  $B \approx 1.4$  T

- وآلية الاصطفا (domains) المجالات المصغرة

[40] K&J Magnetics Inc. "Magnet Glossary — Coercive Force, Remanence, Curie Temperature."

URL: <https://www.kjmagnetics.com/glossary.asp>

## ثالث عشر: كثافات المواد (الفصل الرابع/السادس)

[41] CRC Handbook of Chemistry and Physics. 100th Edition (2019-2020). CRC Press.

البيانات المستخدمة:

- 7,874 kg/m<sup>3</sup> كثافة الحديد:

- 2,700 kg/m<sup>3</sup> كثافة الألمنيوم:

- 600~ kg/m<sup>3</sup> كثافة الخشب:

- 120~ kg/m<sup>3</sup> كثافة الفلين:

- 0.164 kg/m<sup>3</sup> كثافة الهيليوم:

- 21,450 kg/m<sup>3</sup> كثافة البلاتين:

- 1,010~ kg/m<sup>3</sup> كثافة جسم الإنسان:

## رابع عشر: الغلاف المغناطيسي والرياح الشمسية (الفصل العاشر/الحادي عشر)

[42] Kivelson, M.G. & Russell, C.T. (1995). Introduction to Space Physics.

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البيانات المستخدمة:

- 65,000 km حدود الغلاف المغناطيسي: (باتجاه الشمس)

- 6,300,000 km ذيل الغلاف: (عكس الشمس)

- 60,000-1,000 km أحزمة فان ألن:

[43] NASA. "Solar Wind — Properties."

البيانات المستخدمة:

- 5 × 10<sup>6</sup> m<sup>3</sup>/جسيمة كثافة الرياح الشمسية: n ≈

- 400 km/s سرعة الرياح الشمسية: v ≈

- 6.68 × 10<sup>-10</sup> Pa ضغط الرياح الديناميكي المحسوب: P ≈

## خامس عشر: تكوين الحديد في النجوم (الخاتمة)

[44] Woosley, S.E. & Heger, A. (2007). "Nucleosynthesis and Remnants in Massive Stars of Solar Metallicity."

Physics Reports, 442(1-6), 269-283.

DOI: 10.1016/j.physrep.2007.02.009

هو العنصر الأثقل الذي يتكوّن بالاندماج النووي في النجوم (Fe-56) الملاحظة: الحديد.

وهي متاحة فقط في أنوية النجوم العملاقة قبل انفجارها — K تكوينه يتطلب حرارة  $3 \times 10^9$ .

[45] Arnett, D. (1996). Supernovae and Nucleosynthesis. Princeton University Press.

الملاحظة: عناصر أثقل من الحديد تتكوّن فقط في انفجارات السوبرنوفات.

الأرض لا تملك الحرارة الكافية لتكوين الحديد — فهو "أنزل" من خارجها.

## سادس عشر: بدلات الطيارين المقاتلين — المقارنة (الفصل الحادي عشر)

[46] Jenkins, D.R. (2012). Dressing for Altitude: U.S. Aviation Pressure Suits.

NASA SP-2011-595. NASA History Division.

kg البيانات المستخدمة: وزن بدلة الضغط الكاملة للطيران على ارتفاعات عالية  $\approx 15$

URL: [https://www.nasa.gov/connect/ebooks/dressing\\_for\\_altitude\\_detail.html](https://www.nasa.gov/connect/ebooks/dressing_for_altitude_detail.html)

ملاحظة: جميع الروابط الإلكترونية تم الوصول إليها والتحقق منها في آذار 2026.

Note: All URLs were accessed and verified in March 2026.

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[P4] PMC 7912337 — ELF-MF as Stress Factor, review of the last decade, 2021

[P5] Preprints.org — The Influence of Magnetic Fields on Complex Life Forms, 2023

[P6] Journal of Environmental and Public Health — Earthing: Health Implications of Reconnecting the Human Body to Earth's Surface Electrons, 2012

[P7] International Journal of Obesity — Gender differences in body fat content present well before puberty (DEXA)

[P8] NCCOR, 2020 — Key Factors Influencing Body Composition and Its Distribution

[P9] Karger, Hormone Research in Paediatrics, 2003 — Puberty and Body Composition

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[P12] PMC 7570196, 2020 — Magnetic Field (MF) Applications in Plants: An Overview

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[H3] Monthly Notices of the Royal Astronomical Society, 2022 — Magnetic field strength in cosmic web filaments (32 nG)

[H4] Max Planck Institute for Astrophysics, 2024 — Evolution of cosmic filaments (MillenniumTNG)

[H5] Live Science, 2025 — Universe's first magnetic fields linger within the cosmic web

[H6] Funaro, Applied Sciences/MDPI, 2022 — Ball Lightning as Plasma Vortexes

[H7] U.S. Department of Energy (DOE) — DOE Explains: Plasma

[H8] IPP Garching (Max Planck Institute for Plasma Physics) — Ball lightning experiments

[H9] Wu, Scientific Reports, 2016 — Relativistic-microwave theory of ball lightning

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## **Theory under construction and testing**

Eng. Fadhil Abbas Al-Jaafari — Wasit, Iraq

March 2026 — Complete Final Merged Edition

# Chapter: Three Verses — Pressure, Shadow, and Measurement

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An additional chapter of Fadhil's Charged Medium Theory

## Introduction: Why "Your Lord" (Rabbika)?

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In two of the three verses, the same phrasing appears: **"Have you not seen your Lord"** and **"a day with your Lord."** The Quran did not say "Allah" (the comprehensive name) nor "the Creator" — but "your Lord" (Rabbika). In Arabic, "Rabb" means the one who continuously manages, nurtures, and balances — not the one who created from nothing. It is the managerial attribute, not the creative one.

Shadow and time are not one-time creation events but **continuous operations** — the shadow extends and contracts every day, time flows and is calibrated. The charged medium is charged, maintained, and balanced continuously. All three are operational systems — hence they came with the attribute of the Lord-Manager, not the Creator-Originator.

"Have you not seen" is not a question — it means: **Look with contemplation — the evidence is visible before you.** He said "seen" not "known" — because the shadow is visible and time is felt.

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## Verse One: Al-An'am 125 — The Medium Carries, Ascent Distresses

فَمَنْ يُرِدِ اللَّهُ أَنْ يَهْدِيَهُ يَشْرَحْ صَدْرَهُ لِلْإِسْلَامِ ۖ وَمَنْ يُرِدْ أَنْ يُضِلَّهُ يَجْعَلْ صَدْرَهُ ضَيِّقًا حَرَجًا كَأَنَّمَا يَصَّعَّدُ فِي السَّمَاءِ

"Whoever Allah wills to guide — He expands his chest to Islam. And whoever He wills to misguide — He makes his chest tight and constricted as though he were climbing into the sky."

### Linguistic Analysis

**"Harajan" (حَرَجًا)** — Not mere tightness. If only tightness were meant, the word "shadid" would suffice. "Haraj" = constriction with no breathing room — a precise physical description of oxygen deprivation, not a psychological metaphor.

**"Yassa'adu" (يَصَّعَّدُ)** — The reflexive-intensive form "yatafa'alu" = struggling to ascend with difficulty. Not simply "ascending" but laboring to climb — exactly what the body does at altitude.

**"Fi al-sama'" (فِي السَّمَاءِ)** — "In" the sky, not "to" the sky. He is inside the medium, sensing its change upon him.

### Equations

#### 1. Barometric Pressure Equation:

$$P(h) = P_0 \times \exp(-M \cdot g \cdot h / R \cdot T)$$

Where:  $P_0 = 101,325 \text{ Pa}$ ,  $M = 0.02896 \text{ kg/mol}$ ,  $g = 9.81 \text{ m/s}^2$ ,  $R = 8.314 \text{ J/(mol}\cdot\text{K)}$ ,  $T \approx 288 \text{ K}$

#### 2. Partial Oxygen Pressure:

$$P_{O_2}(h) = 0.21 \times P_0 \times \exp(-M \cdot g \cdot h / R \cdot T)$$

At h = 5000 m → PO<sub>2</sub> ≈ 11,340 Pa — half the sea-level value. This is the "haraj."

### 3. Medium Charge Density with Altitude (Theory Equation):

$$\rho_q(h) = \rho_{q_0} \times \exp(-h / H_q)$$

Altitude (m)	P (kPa)	PO <sub>2</sub> (kPa)	$\rho_q / \rho_{q_0}$	Condition
0	101.3	21.3	1.00	Chest expanded
3,000	70.1	14.7	0.69	Onset of tightness
5,000	54.0	11.3	0.53	<b>Haraj (critical)</b>
8,848	33.7	7.1	0.33	Yassa'adu

### 4. Weight as a Function of Medium Pressure:

$$W(h) = m \times g_{\text{eff}}(h) \text{ where } g_{\text{eff}}(h) \propto \rho_q(h) \times P(h)$$

The verse confirms that the atmospheric medium — with its pressure, oxygen, and charge — is the source of comfort. Leaving it = distress. Weight is not attraction toward Earth but pressure from the medium that carries the body. The medium is not an obstacle — it is a shield of protection.

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## Verse Two: Al-Furqan 45-46 — Shadow Is Origin, Sun Is Indicator

أَلَمْ تَرَ إِلَىٰ رَبِّكَ كَيْفَ مَدَّ الظِّلَّ وَلَوْ شَاءَ لَجَعَلَهُ سَاكِنًا ثُمَّ جَعَلْنَا الشَّمْسُ عَلَيْهِ دَلِيلًا ﴿٤٥﴾

"Have you not seen your Lord — how He extended the shadow? And if He willed, He could have made it static. Then We made the sun upon it an indicator."

## Dimension 1: Shadow Is Primary, Sun Is Indicator

Conventional View	Quranic View
Sun creates the shadow	Shadow is pre-extended; sun reveals it
Light is primary, shadow secondary	Shadow is primary, light is its indicator
No sun = no shadow	No medium = no life; sun merely reveals

## Dimension 2: "Sakinan" = Without Charge

"Sakin" does not mean motionless. "Static electricity" in Arabic is "kahraba' sakina" — charge without flow. The verse may contain a rhetorical pivot — the subject shifts from the visible shadow to the medium itself:

*Had He willed, He would have made the medium uncharged — a neutral, dead medium that neither carries nor presses nor shades.*

**Charging is the condition for the medium's functional existence** — not merely a property of it.

## Dimension 3: Shadow Has Weight — Scientific Evidence

### 5. Photoelectric Effect (Einstein 1905):

$$E_k = h \cdot f - \phi$$

### 6. Electron Ejection Rate per Unit Area:

$$\dot{N}_e = (I \times \eta) / (h \cdot f)$$

In direct sunlight  $I \approx 1361 \text{ W/m}^2$ ; in shadow  $I \approx 0$ . The difference = difference in charge = difference in weight.

### 7. Shadow Weight — Medium Pressure Differential:

$$\Delta W = [\rho_q(\text{sun}) - \rho_q(\text{shadow})] \times k_q \times A$$

Condition	Electrical Effect	Result in Theory
Body in sunlight	Loses electrons, medium ionized	Higher pressure = heavier
Body in shadow	Ejection stops	Lower pressure = lighter

*Shadow is not absence of light — shadow is a charge-depletion zone. And shadow has weight.*

## Dimension 4: Proportionality — Shadow Curvature and Multiple Speeds

### 8. Shadow Length:

$$L(t) = h / \tan(\alpha(t))$$

### 9. Rate of Shadow Change:

$$dL/dt = -h \times (d\alpha/dt) / \sin^2(\alpha)$$

### 10. Air Mass (Medium Thickness Traversed):

$$AM(\alpha) = 1 / \sin(\alpha)$$

At  $\alpha = 90^\circ \rightarrow AM = 1$  (minimum thickness). At  $\alpha = 5^\circ \rightarrow AM = 11.5$  (11× thicker medium).

## Refutation: Polar Speed Is Not Zero

### 11. Linear Speed at Latitude $\varphi$ :

$$v(\varphi) = \omega \times R_\oplus \times \cos(\varphi) = 465.1 \times \cos(\varphi) \text{ m/s}$$

At equator:  $v = 1,674 \text{ km/h}$ . At pole:  $v = 0$ . This is what mechanics says — but this description is incomplete and misleading.

## 12. Magnetic Field Intensity (Dipole Model):

$$B(\lambda) = (\mu_0/4\pi) \times (m/R^3) \times \sqrt{(1 + 3 \cdot \sin^2\lambda)}$$

At equator:  $B \approx 31 \mu\text{T}$ . At pole:  $B \approx 62 \mu\text{T}$  — double the equatorial value.

## 13. Magnetic Energy Density:

$$u_B = B^2 / (2 \cdot \mu_0)$$

At pole:  $u = 15.3 \times 10^{-4} \text{ J/m}^3 = 4 \times$  the equatorial value.

Property	Pole	Equator	Equation
v (linear)	0 km/h	1,674 km/h	$v = \omega R \cos \varphi$
B (field)	<b>62 <math>\mu\text{T}</math></b>	31 $\mu\text{T}$	$B \propto \sqrt{(1+3\sin^2\lambda)}$
$u_B$ (energy)	<b><math>15.3 \times 10^{-4}</math></b>	$3.8 \times 10^{-4}$	$u = B^2/2\mu_0$
Troposphere	<b>8 km</b>	17 km	—

**The Waterwheel (Yo-Yo) Principle:** The poles are the points of maximum charge concentration — where the magnetic field exits and enters. The Aurora Borealis appears at the poles, not the equator. In the Charged Medium Theory, the measure is not v but B and  $u_B$ . The pole is zero in mechanics — maximum in electromagnetism.



## Verse Three: Al-Hajj 47 — The Cosmic Measurement

وَإِنَّ يَوْمًا عِنْدَ رَبِّكَ كَأَلْفِ سَنَةٍ مِّمَّا تَعُدُّونَ

"And indeed, a day with your Lord is like a thousand years of what you count."

## 14. The Divine Day:

$$T_{\text{divine}} = 1000 \times 365.25 \times 24 \times 3600 = 3.156 \times 10^{10} \text{ seconds}$$

### 15. Light-Year Distance:

$$d = c \times T = 2.998 \times 10^5 \times 3.156 \times 10^7 = 9.461 \times 10^{12} \text{ km/year}$$

1,000 light-years = one cosmic day — a real unit used in galactic distance measurements.

### Who Measured the Speed of Light?

Measurement	Method	Hidden Assumption
Rømer 1676	Jupiter moon eclipse delay	Orbit is perfectly circular
Fizeau 1849	Toothed wheel and light	Outbound time = return time
Michelson	Rotating mirrors	Air is a homogeneous medium

The sun we see is not the real sun — it is an image from 8.3 minutes ago. We interact with a temporal shadow. What reaches us is the sun's effect in the medium — not the sun directly.

### Speed of Light in the Charged Medium

#### 16. Speed of Light in a Medium:

$$v = c / n$$

In the atmosphere:  $n = 1.000293 \rightarrow v = 299,704 \text{ km/s}$  (88 km/s slower than  $c$ ).

#### 17. Appleton Equation (Ionosphere):

$$n^2 = 1 - (f_p^2 / f^2)$$

As electron density  $N_e$  increases  $\rightarrow f_p$  increases  $\rightarrow n^2$  decreases  $\rightarrow$  light slows further.

#### 18. True Arrival Time Through the Charged Medium:

$$t_{\text{real}} = \int_0^s n(s)/c \, ds > 8.3 \text{ minutes}$$

### 19. Effective Speed of Light:

$$c_{\text{eff}} = d_{\text{total}} / \int_0^s [n(s)/c] \, ds$$

*What we call "the speed of light" is not the speed of a photon traveling in a vacuum — it is the rate of energy-effect propagation through the chain of interaction and production between the layers of the charged medium.*

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## Conclusion

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*The Lord manages the medium. The medium extends the shadow, carries the body, and calibrates time. The sun is an indicator — not a source. Shadow is not absence — it is a charge-depletion zone, and it has weight. The pole is not stationary — it is the highest electromagnetic activity point on Earth's surface. And what we call the speed of light is the speed of effect propagation through the medium — neither constant nor absolute.*

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The Charged Medium Theory — April 2026