

FIRST LAW OF PHYSICS¹

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We have a new law of physics by Farid Chouery²

"To every load or weight, there is a unique deflection curve."

Presenting: we live in a unique universe,

God created everything special, and all behave uniquely. When we press on something, the curvature is unique. We should find beauty in everything and feel privileged to live in this Universe.

What is the meaning of a unique deflection curve?

In structural engineering, everything we do is a philosophy except deflection. Deflection is real and is not a philosophy; everyone can see deflections and curvatures caused by a load or weight applied on the material; unless you are blind, but you can always feel deflection curves.

In mechanics, one can easily find no two sets of loads that give the same deflection curve. For example, one can clone a D.N.A. for sheep, but the behavior would not be the same. Thus, they possess a different soul and spirit. It is like identical twins; they have a different soul and spirit. You may look at a bouquet and say they are all the same roses, but they are not each with a different curvature. No matter how you express the deflection curve mathematically for the same load, the curvature would be the same because it is unique, bringing us to a unique universe. How about our existence? It can be quickly concluded that we are all unique and should not have low self-esteem but too high self-worth. There are none alike; we are too valuable to ourselves and each other. Galileo showed the Earth is not the center of the Universe, and Man used to have great self-esteem, thinking we are in the center of the Universe. Self-esteem was taken away from us at that time, and now it is restored and will never be taken away from us. Now we say I

¹ This law was discovered in 2007 while working on a Structural Plate deflection solution by Farid A. Chouery.

² From new book titled "We went to the moon but did not solve the ancient bow and arrow problem" published on livingwater2t2m.com by Farid A. Chouery ©2011, 2021.

am something I am dynamically unique since every minute; 30,000 cells change in my body. There is only one in the entire Universe.

How about replicating deflection curves in the Universe? If so, then these criteria must be met.

- 1- Topography must be the same as having the same gravity.
- 2- Gravity must be the same, or the mass composition below the beam must be identical.
- 3- Gravitation influence from the Universe from all stars and planets to the beam must be the same.
- 4- The temperature must be the same.
- 5- The exact location of the load on the beam must be in the same place.
- 6- The beam shape must be identical.
- 7- The beam span must be identical.
- 8- The beam composition must be identical.
- 9- The loads mass must be identical.
- 10- Beam Reactions must be in the same place.
- 11- Beam Slope must be identical
- 12- The atmospheric pressure must be identical
- 13- There should be no vibrations; the Universe has to stand still, no Super Nova effect, the wind has to stop blowing the tectonic plates has to stop moving, no volcanic activity, no cars moving, no breathing because of vibration presents different deflection in the vibration gradient in each beam. Even if it happens, gravity is not the same
- 14- The residual gravitational force from any star or planet must be the same.
- 15- Magnetic field to match.
- 16- Electric field to match.
- 17- Contact shear must be the same underneath loads and reactions.
- 18- Add your criterion

On item 18 above, I send my law to a physics friend of mine; his name is John Barclay in England; here is what he said:

"I think it is amazing is how profound concepts like general relativity are Pervasive, which I saw in your list (although not framed in terms of general relativistic language, these are the same universal physical laws!)"

So, one can easily conclude that it is impossible to replicate deflection curves in the Universe. From an engineering perspective, one can say they are close enough. From a philosophical perspective, they are not the same, and how about the deflection point distance when surveying a distance? That presents a problem because the measured distance will vary in two locations by the number of atoms at the tip. Having the same distance is not likely but probable in the Universe with a low probability number. It is also inconceivable to say the law of deflection does not apply to a different planet in this Universe. But I cannot do a laboratory experiment on every planet, so I have to have faith.

From this law of physics, we can conclude every human is unique in the entire Universe. But every minute, 30,000 to 40,000 skin cells change in the body, so we are not unique; we are dynamically unique. All life is dynamically unique.

One may call that the Universe is random. That is not possible because even at randomness, one could not get everything to be unique. That proves the existence of a creator that is so jealous of His work that wants everything to be unique and appears the uniqueness is deliberate. It means that God has a database that can tell the number of hairs on your head and has His Hand on everything. Some people say that the Universe is unique is a given, but now we have proof to confirm our intuition.

I do not think there will be a time where humans would say I understand what is happening in the Universe. What the bleep do we know?

Three conclusions we can observe from the current Universe:

- 1- We must live forever and have a new body to occupy the Universe.
- 2- God must be with us physically to tell us what to do.
- 3- Only trusted people can occupy the Universe – The instability hypothesis: instability always happen from small things.

It does not take much explaining to conclude that we need an immortal body and that our present body has limitations, is mortal, and cannot occupy the Universe indefinitely.

A simple example of our weakness to occupy the Universe without God's help is imagining Earth's weather. With all our technology, computers, and the history of scientists' work past and present, we still cannot tell the weather correctly. How can we know the weather to every existing and yet to a new planet in the Universe? That is not possible, especially when we also start asking about the composition of the planets and the dynamic changes that are continually happening. We need God's help! As it says in Mark 10:27: Jesus looked at them (the disciples) and said, "For mortals it is impossible, but not for God; for God, all things are possible." There are many other impossible concepts to ask about, such as learning every language on Earth or possess all knowledge on Earth? These are impossibilities due to being mortal, as we do not have enough time to learn everything and our memory also decays, resulting in the loss of memory over time.

In a nutshell, it seems that to occupy the Universe and the new Earth indefinitely with our present or future body and mind, we must believe in God. We are infinitesimal; how can we occupy the Universe indefinitely without God? There is nowhere else where we can obtain the required feedback or communication to exist in the Universe. Maybe that is why Christ said, to enter the kingdom of Heaven, we must believe in Him or God, since He is God, and be saved (John 11:25) (John 3:16). From this research, it will be apparent that we can obtain God's feedback through Christian meditation during the limited time we have on Earth. In the new body given by Jesus Christ, the Bible refers to the fact that, in Heaven, we will see clearly (1 Corinthians 13:12), but we will not know everything. In Heaven, we will serve God (Revelation 7:15). The service is not passive but active. It involves fulfilling responsibilities, carrying out duties, expending effort, and having energy and creativity to work well. It will be work with lasting accomplishment, unhindered by decay and fatigue, and enhanced by unlimited resources. It will be like the work Adam and Eve did in the Garden of Eden (Genesis 2:15) before sin brought the curse on the ground, with its thorns (Genesis 3:17-19). It is suggested that traveling through space will not take any time, since we will travel in the fifth and six dimensions, like Jesus entering a room with closed doors (John 20:19). <https://www.universetoday.com/48619/a-universe-of-10-dimensions/> It is

clear that our new body will be immortal and have other senses and dimensions will be in constant communication with God because of the instability hypothesis. For these reasons, the Bible indicates that Heaven cannot be imagined but can be implied, and therefore things can make sense, even the long-standing question of "why is my life so short?". The answer is that Adam and Eve's sin put us in jail, and we cannot travel to places in the Universe. This sin can cause instability in the Universe as it did on Earth, shown with all the past wars because of arrogance and wanting to be God.

Note: The current Universe has a problem with the second law of thermodynamics. It notes that every system—whether closed or open—at least *tends* to decay. The Universe itself is "running down," heading toward an ultimate "heat death." The Bible speaks of a new universe or new Heaven – see Revelation 21:1-6 (N.R.S.) – and the Universe is Heaven (see Deuteronomy 1:10 [ESV], Psalm 8:3-4 [ESV]).

Proof of unique deflection:

The Law: To every load, there is a unique deflection curve.

We will investigate a beam.

First, if one changes the beam composition or geometry to produce the same deflection curve, then the beams are already unique in materials. That is understood in the Universe to have a uniqueness in materials. It is possible to have a close enough behavior with two different compositions by making $P_1/EI_1 = P_2/EI_2$ in a beam with a point load at some distance from the reaction. But to match it identically, that would be impossible for lack of matching too many parameters such as gravity, vibration, location of load, temperature, slope, shape, composition of materials, etc.

We will investigate two beams with a point load and try to match small deflection with the point load in a different location having the same composition.

Two beams of distance L with a point load in the center and the other at b distance.

Ref: American Institute of Steel Construction Manual (AISC) see Beam Diagram and Formulas Table

Deflection 1: $P_1 x(3L^2-4x^2)/48EI$ #7 AISC

Deflection 2: $P_2 b x (L^2 - b^2 - x^2)/6EIL$ #8 AISC

Where E.I. is the elastic modulus and moment of inertial, $x > b$ or $< L/2$ and P_1 and P_2 is a point load on each beam.

It must happen for every x . To match, make x cancels out by letting $P_1 = 2b P_2 /L$, then when cancel and solve for b , the result is b must be $L/2$. And thus, $P_1 = P_2$.

If the load is not at the center, the result is the same, and the solution is the loads, and the location will also be identical. You cannot have two sets of loads at a different place with the same deflection curve.

Now every load can be decomposed to point loads; thus, it is true for any load. If it is not a beam or a mass of material with variation, it can be done with a free body diagram. A large deflection gives an identical solution. If the beam is inelastic or plastic, similar proof can be obtained following the incrementally elastic stress-strain curve. And the law is universally true.

EVERYTHING IS UNIQUE AND LOVED BY GOD (Genesis 1:1-31)

PRAISE GOD – read Psalm 139: 13-16

I will offer You my grateful heart, for I am Your unique creation, filled with wonder and awe. You have approached even the smallest details with excellence; Your works are wonderful; I carry this knowledge deep within my soul. – Psalm 139:1

Since everything God created is good, we should not reject any of it. We may receive it gladly, with thankful hearts. (1 Timothy 4:4)

All of us are unique and have something to contribute; we only need healthy competition and not destructive, full of bullying, hate, intimidations, humiliation, discrimination, and persecutions.