

IN ACCORDANCE WITH NEWTON'S UNIVERSAL THE FORCE OF GRAVITY IS DIRECTLY PROPORTIONAL TO LAW OF GRAVITATION.

IN ACCORDANCE WITH NEWTON'S UNIVERSAL THE FORCE OF GRAVITY IS DIRECTLY PROPORTIONAL TO LAW OF GRAVITATION.

NEWTON'S LAW OF UNIVERSAL GRAVITATION IS ONE OF THE FUNDAMENTAL PRINCIPLES THAT EXPLAIN THE ATTRACTIVE FORCE BETWEEN OBJECTS IN THE UNIVERSE. THIS LAW NOT ONLY PROVIDES INSIGHT INTO PLANETARY MOTIONS, SATELLITE TRAJECTORIES, AND CELESTIAL MECHANICS BUT ALSO ESTABLISHES A CLEAR RELATIONSHIP BETWEEN THE FORCE OF GRAVITY AND THE LAW GOVERNING IT. UNDERSTANDING HOW THE FORCE OF GRAVITY IS DIRECTLY PROPORTIONAL TO THE LAW OF GRAVITATION IS ESSENTIAL FOR GRASPING THE CORE CONCEPTS OF CLASSICAL PHYSICS AND THEIR APPLICATIONS IN EVERYDAY LIFE AND SPACE EXPLORATION.

UNDERSTANDING NEWTON'S UNIVERSAL LAW OF GRAVITATION

NEWTON'S LAW OF UNIVERSAL GRAVITATION STATES THAT EVERY POINT MASS ATTRACTS EVERY OTHER POINT MASS IN THE UNIVERSE WITH A FORCE THAT IS DIRECTLY PROPORTIONAL TO THE PRODUCT OF THEIR MASSES AND INVERSELY PROPORTIONAL TO THE SQUARE OF THE DISTANCE BETWEEN THEIR CENTERS.

THE MATHEMATICAL EXPRESSION

THE LAW IS MATHEMATICALLY EXPRESSED AS:

$$F = G \frac{m_1 m_2}{r^2}$$

WHERE:

- F IS THE MAGNITUDE OF THE GRAVITATIONAL FORCE BETWEEN THE TWO OBJECTS
- G IS THE GRAVITATIONAL CONSTANT ($6.674 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$)
- m_1 AND m_2 ARE THE MASSES OF THE TWO OBJECTS
- r IS THE DISTANCE BETWEEN THE CENTERS OF THE TWO MASSES

THIS FORMULA ENCAPSULATES THE CORE OF NEWTON'S INSIGHTS: THE GRAVITATIONAL FORCE DEPENDS DIRECTLY ON THE MASSES INVOLVED AND INVERSELY ON THE SQUARE OF THE DISTANCE SEPARATING THEM.

RELATION BETWEEN FORCE AND LAW OF GRAVITATION

THE PHRASE "FORCE OF GRAVITY IS DIRECTLY PROPORTIONAL TO LAW OF GRAVITATION" EMPHASIZES THE INTRINSIC RELATIONSHIP BETWEEN THE GRAVITATIONAL FORCE AND THE LAW'S PARAMETERS. IN ESSENCE:

- THE FORCE IS PROPORTIONAL TO THE PRODUCT OF THE MASSES ($m_1 \times m_2$)
- THE FORCE IS INVERSELY PROPORTIONAL TO THE SQUARE OF THE DISTANCE (r^2)
- THE FORCE IS DIRECTLY PROPORTIONAL TO THE GRAVITATIONAL CONSTANT (G)

THIS PROPORTIONALITY SIGNIFIES THAT ANY CHANGE IN THE MASSES OR THE DISTANCE AFFECTS THE FORCE IN PREDICTABLE WAYS, AS DESCRIBED BY THE LAW.

KEY CONCEPTS DERIVED FROM THE LAW OF GRAVITATION

1. DIRECT PROPORTIONALITY TO MASSES

THE GRAVITATIONAL FORCE INCREASES LINEARLY WITH THE MASSES:

- DOUBLING (m_1) OR (m_2) DOUBLES THE FORCE
- THE FORCE IS ZERO IF EITHER MASS IS ZERO

2. INVERSE SQUARE LAW

THE FORCE DIMINISHES WITH THE SQUARE OF THE DISTANCE:

- WHEN THE DISTANCE DOUBLES, THE FORCE BECOMES ONE-QUARTER
- WHEN THE DISTANCE TRIPLES, THE FORCE REDUCES TO ONE-NINTH

3. GRAVITATIONAL CONSTANT

THE CONSTANT (G) ENSURES THE FORCE REMAINS CONSISTENT ACROSS DIFFERENT MASS AND DISTANCE COMBINATIONS, SERVING AS A UNIVERSAL SCALING FACTOR.

IMPLICATIONS OF THE PROPORTIONALITY IN REAL-WORLD SCENARIOS

UNDERSTANDING THE PROPORTIONALITY HELPS US PREDICT AND ANALYZE VARIOUS PHENOMENA:

- **PLANETARY ORBITS:** THE ELLIPTICAL ORBITS OF PLANETS AROUND THE SUN ARE GOVERNED BY THE GRAVITATIONAL FORCE, WHICH DEPENDS ON THE MASSES INVOLVED AND THE DISTANCE FROM THE SUN.
- **SATELLITE TRAJECTORIES:** THE PATHS OF ARTIFICIAL SATELLITES ARE CALCULATED BASED ON THE GRAVITATIONAL PULL EXERTED BY EARTH, WHICH VARIES WITH ALTITUDE (DISTANCE).
- **TIDAL EFFECTS:** THE GRAVITATIONAL INFLUENCE OF THE MOON AND SUN ON EARTH'S OCEANS DIRECTLY CORRELATES WITH THEIR MASSES AND PROXIMITY.
- **SPACE MISSIONS:** PRECISE CALCULATIONS OF SPACECRAFT TRAJECTORIES DEPEND ON THE UNDERSTANDING OF HOW THE GRAVITATIONAL FORCE VARIES WITH MASS AND DISTANCE.

HISTORICAL CONTEXT AND DEVELOPMENT

NEWTON FORMULATED THE LAW OF UNIVERSAL GRAVITATION IN THE LATE 17TH CENTURY, FUNDAMENTALLY CHANGING OUR UNDERSTANDING OF THE UNIVERSE.

FROM KEPLER TO NEWTON

- JOHANNES KEPLER DISCOVERED PLANETARY LAWS DESCRIBING PLANETARY MOTION.
- NEWTON EXPLAINED THESE LAWS WITH HIS LAW OF GRAVITATION, ESTABLISHING A UNIVERSAL PRINCIPLE APPLICABLE TO ALL MASSES.

THE SIGNIFICANCE OF PROPORTIONALITY

NEWTON'S INSIGHT INTO THE PROPORTIONALITY BETWEEN GRAVITATIONAL FORCE AND MASS/DISTANCE PROVIDED A QUANTITATIVE FRAMEWORK THAT COULD BE TESTED AND APPLIED UNIVERSALLY.

APPLICATIONS OF THE LAW OF GRAVITATION AND FORCE PROPORTIONALITY

THE PRINCIPLES DERIVED FROM THE PROPORTIONALITY HAVE NUMEROUS APPLICATIONS ACROSS SCIENTIFIC FIELDS:

1. **ASTROPHYSICS:** CALCULATING THE MASSES OF CELESTIAL BODIES AND UNDERSTANDING GALAXY FORMATIONS.
2. **ENGINEERING:** DESIGNING SATELLITES AND SPACE STATIONS WITH PRECISE GRAVITATIONAL CONSIDERATIONS.
3. **GEOPHYSICS:** STUDYING EARTH'S INTERNAL STRUCTURE AND GRAVITATIONAL ANOMALIES.
4. **NAVIGATION:** GPS TECHNOLOGY RELIES ON GRAVITATIONAL CALCULATIONS TO PROVIDE ACCURATE POSITIONING.

LIMITATIONS AND MODERN PERSPECTIVES

WHILE NEWTON'S LAW EFFECTIVELY DESCRIBES MANY GRAVITATIONAL PHENOMENA, IT HAS LIMITATIONS:

- IT DOES NOT ACCOUNT FOR RELATIVISTIC EFFECTS OBSERVED NEAR MASSIVE OBJECTS.
- EINSTEIN'S GENERAL THEORY OF RELATIVITY PROVIDES A MORE COMPREHENSIVE UNDERSTANDING, ESPECIALLY IN STRONG GRAVITATIONAL FIELDS.

HOWEVER, NEWTON'S PROPORTIONALITY CONCEPT REMAINS FUNDAMENTAL IN CLASSICAL PHYSICS AND SERVES AS THE FOUNDATION FOR MORE ADVANCED THEORIES.

CONCLUSION

IN SUMMARY, IN ACCORDANCE WITH NEWTON'S UNIVERSAL LAW OF GRAVITATION, THE GRAVITATIONAL FORCE BETWEEN TWO OBJECTS IS DIRECTLY PROPORTIONAL TO THE PRODUCT OF THEIR MASSES AND INVERSELY PROPORTIONAL TO THE SQUARE OF THE DISTANCE BETWEEN THEM. THIS PROPORTIONALITY UNDERPINS MUCH OF CLASSICAL PHYSICS, ENABLING SCIENTISTS AND ENGINEERS TO ANALYZE CELESTIAL MOTIONS, DESIGN SPACE MISSIONS, AND UNDERSTAND NATURAL PHENOMENA. RECOGNIZING THIS FUNDAMENTAL RELATIONSHIP HELPS US APPRECIATE THE ELEGANCE AND UNIVERSALITY OF NEWTON'S INSIGHTS INTO THE FORCES THAT GOVERN THE COSMOS.

KEYWORDS FOR SEO OPTIMIZATION:

- NEWTON'S LAW OF GRAVITATION
- FORCE OF GRAVITY
- LAW OF GRAVITATION PROPORTIONALITY
- UNIVERSAL GRAVITATIONAL CONSTANT
- GRAVITATIONAL FORCE FORMULA
- CELESTIAL MECHANICS
- SPACE EXPLORATION PHYSICS
- GRAVITATIONAL LAWS AND APPLICATIONS
- NEWTONIAN PHYSICS
- INVERSE SQUARE LAW

FREQUENTLY ASKED QUESTIONS

WHAT IS NEWTON'S LAW OF UNIVERSAL GRAVITATION?

NEWTON'S LAW OF UNIVERSAL GRAVITATION STATES THAT EVERY MASS ATTRACTS EVERY OTHER MASS IN THE UNIVERSE WITH A FORCE THAT IS DIRECTLY PROPORTIONAL TO THE PRODUCT OF THEIR MASSES AND INVERSELY PROPORTIONAL TO THE SQUARE OF THE DISTANCE BETWEEN THEIR CENTERS.

HOW DOES NEWTON'S LAW RELATE THE FORCE OF GRAVITY TO THE MASSES INVOLVED?

THE FORCE OF GRAVITY INCREASES PROPORTIONALLY WITH THE PRODUCT OF THE TWO MASSES, MEANING LARGER MASSES EXERT A STRONGER GRAVITATIONAL PULL ON EACH OTHER.

WHAT IS THE SIGNIFICANCE OF THE INVERSE SQUARE LAW IN NEWTON'S GRAVITY?

IT INDICATES THAT THE GRAVITATIONAL FORCE DECREASES WITH THE SQUARE OF THE DISTANCE BETWEEN TWO OBJECTS, MEANING DOUBLING THE DISTANCE REDUCES THE FORCE TO A QUARTER.

HOW DOES NEWTON'S LAW OF GRAVITATION SUPPORT THE IDEA THAT GRAVITY IS A UNIVERSAL FORCE?

BECAUSE IT APPLIES TO ALL OBJECTS WITH MASS IN THE UNIVERSE, FROM PLANETS TO STARS, DEMONSTRATING THAT GRAVITY IS A FUNDAMENTAL, UNIVERSAL FORCE.

IN WHAT WAY IS THE FORCE OF GRAVITY DIRECTLY PROPORTIONAL TO THE LAW OF GRAVITATION?

THE GRAVITATIONAL FORCE IS DIRECTLY PROPORTIONAL TO THE PRODUCT OF THE MASSES INVOLVED, AS DESCRIBED BY

NEWTON'S LAW, WHICH EMBODIES THE LAW OF GRAVITATION MATHEMATICALLY.

CAN NEWTON'S LAW OF UNIVERSAL GRAVITATION EXPLAIN THE ORBITS OF PLANETS?

YES, IT ACCURATELY DESCRIBES THE GRAVITATIONAL FORCES THAT KEEP PLANETS IN ORBIT AROUND THE SUN BASED ON THEIR MASSES AND DISTANCES.

HOW DOES NEWTON'S LAW OF GRAVITATION RELATE TO EINSTEIN'S THEORY OF GENERAL RELATIVITY?

WHILE NEWTON'S LAW PROVIDES AN EXCELLENT APPROXIMATION FOR MANY SITUATIONS, EINSTEIN'S GENERAL RELATIVITY OFFERS A MORE COMPREHENSIVE DESCRIPTION OF GRAVITY, ESPECIALLY IN STRONG GRAVITATIONAL FIELDS.

WHAT ARE SOME LIMITATIONS OF NEWTON'S LAW OF UNIVERSAL GRAVITATION?

IT DOES NOT ACCOUNT FOR RELATIVISTIC EFFECTS OR QUANTUM PHENOMENA AND IS LESS ACCURATE IN EXTREME CONDITIONS LIKE NEAR BLACK HOLES OR AT VERY SMALL SCALES.

HOW HAS NEWTON'S LAW OF GRAVITATION INFLUENCED MODERN PHYSICS?

IT LAID THE FOUNDATION FOR CLASSICAL MECHANICS AND ASTRONOMY, ENABLING PRECISE CALCULATIONS OF PLANETARY MOTIONS, SPACECRAFT TRAJECTORIES, AND FURTHER DEVELOPMENT IN GRAVITATIONAL STUDIES.

ADDITIONAL RESOURCES

NEWTON'S LAW OF UNIVERSAL GRAVITATION: THE FOUNDATION OF CELESTIAL MECHANICS

NEWTON'S LAW OF UNIVERSAL GRAVITATION STANDS AS ONE OF THE MOST PROFOUND AND REVOLUTIONARY PRINCIPLES IN PHYSICS, FUNDAMENTALLY ALTERING OUR UNDERSTANDING OF THE UNIVERSE. AT ITS CORE, THIS LAW STATES THAT EVERY PARTICLE OF MATTER IN THE UNIVERSE ATTRACTS EVERY OTHER PARTICLE WITH A FORCE DIRECTLY PROPORTIONAL TO THE PRODUCT OF THEIR MASSES AND INVERSELY PROPORTIONAL TO THE SQUARE OF THE DISTANCE BETWEEN THEIR CENTERS. THIS RELATIONSHIP FORMS THE BACKBONE OF CLASSICAL MECHANICS, CELESTIAL MOTION, AND MODERN ASTROPHYSICS. IN THIS DETAILED REVIEW, WE WILL EXPLORE THE INTRICATE ASPECTS OF NEWTON'S LAW, ITS MATHEMATICAL FORMULATION, PHYSICAL IMPLICATIONS, AND ITS PROFOUND CONNECTION TO THE UNIVERSAL FORCE OF GRAVITY.

HISTORICAL CONTEXT AND DEVELOPMENT OF NEWTON'S LAW OF UNIVERSAL GRAVITATION

PRE-NEWTONIAN VIEWS ON GRAVITY

BEFORE NEWTON FORMALIZED HIS LAW, THE PREVAILING IDEAS ABOUT GRAVITY WERE LARGELY PHILOSOPHICAL. THE ARISTOTELIAN VIEW SUGGESTED THAT OBJECTS NATURALLY SOUGHT THEIR "NATURAL PLACE," AND THE MOTION WAS EXPLAINED VIA QUALITATIVE CONCEPTS WITHOUT A CLEAR QUANTITATIVE LAW. THE COPERNICAN REVOLUTION SHIFTED FOCUS TOWARDS HELIOCENTRIC MODELS, BUT THE MECHANISMS GOVERNING PLANETARY MOTION REMAINED ELUSIVE.

NEWTON'S BREAKTHROUGH

ISAAC NEWTON, IN THE LATE 17TH CENTURY, SYNTHESIZED OBSERVATIONS AND MATHEMATICAL INSIGHTS TO PROPOSE A UNIFYING PRINCIPLE:

- THE LAW OF UNIVERSAL GRAVITATION.
- THE THREE LAWS OF MOTION.

NEWTON'S MOTIVATION WAS PARTLY DRIVEN BY THE ANOMALOUS ORBIT OF MERCURY AND THE NEED TO EXPLAIN PLANETARY MOTIONS PRECISELY. HIS WORK CULMINATED IN MATHEMATICAL PRINCIPLES OF NATURAL PHILOSOPHY (1687), WHERE HE PRESENTED HIS LAW, PROVIDING A QUANTITATIVE DESCRIPTION OF THE GRAVITATIONAL FORCE.

MATHEMATICAL FORMULATION OF THE LAW

EXPRESSION OF THE LAW

NEWTON'S LAW MATHEMATICALLY STATES:

$$F = G \frac{m_1 m_2}{r^2}$$

WHERE:

- F = MAGNITUDE OF THE GRAVITATIONAL FORCE BETWEEN TWO MASSES.
- G = GRAVITATIONAL CONSTANT ($\approx 6.674 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$).
- m_1, m_2 = MASSES OF THE TWO OBJECTS.
- r = DISTANCE BETWEEN THE CENTERS OF THE TWO MASSES.

VECTOR FORMULATION

THE FORCE IS ATTRACTIVE AND ACTS ALONG THE LINE CONNECTING THE TWO MASSES:

$$\vec{F}_{12} = -G \frac{m_1 m_2}{r^3} \vec{r}$$

HERE, $\vec{r}$ IS THE DISPLACEMENT VECTOR FROM MASS 1 TO MASS 2.

THE PROPORTIONALITY AND ITS SIGNIFICANCE

FORCE AND MASS

THE DIRECT PROPORTIONALITY TO THE MASSES MEANS:

- DOUBLING ONE MASS DOUBLES THE FORCE.
- THE FORCE DEPENDS LINEARLY ON m_1 AND m_2 , EMPHASIZING THE MUTUAL NATURE OF GRAVITATIONAL ATTRACTION.

FORCE AND DISTANCE

THE INVERSE SQUARE LAW INDICATES:

- IF THE DISTANCE DOUBLES, THE FORCE REDUCES TO A QUARTER.

- THIS INVERSE SQUARE DEPENDENCE EXPLAINS WHY GRAVITATIONAL EFFECTS ARE DOMINANT AT ASTRONOMICAL SCALES BUT NEGLIGIBLE AT HUMAN SCALES.

IMPLICATION OF PROPORTIONALITY

THE PROPORTIONALITY SUGGESTS:

- LARGER MASSES EXERT STRONGER GRAVITATIONAL PULLS.
- THE FORCE DIMINISHES RAPIDLY WITH INCREASING SEPARATION.

THIS PROPORTIONALITY IS ESSENTIAL FOR UNDERSTANDING PLANETARY ORBITS, SATELLITE TRAJECTORIES, AND EVEN THE DYNAMICS OF GALAXIES.

PHYSICAL INTERPRETATION AND IMPLICATIONS

GRAVITY AS A FUNDAMENTAL FORCE

NEWTON'S LAW CONCEPTUALIZES GRAVITY AS A FUNDAMENTAL, ACTION-AT-A-DISTANCE FORCE, ACTING INSTANTANEOUSLY ACROSS SPACE. THIS WAS REVOLUTIONARY, CONTRASTING WITH PRIOR NOTIONS THAT FORCES REQUIRED CONTACT OR INTERMEDIARY MECHANISMS.

ORBIT PREDICTIONS AND CELESTIAL MECHANICS

THE LAW ALLOWS:

- PRECISE CALCULATIONS OF PLANETARY POSITIONS.
- DERIVATION OF ELLIPTICAL ORBITS (KEPLER'S LAWS) FROM NEWTONIAN MECHANICS.
- PREDICTION OF TIDAL EFFECTS, SATELLITE MOTION, AND THE STABILITY OF PLANETARY SYSTEMS.

LIMITATIONS AND MODERN PERSPECTIVES

WHILE NEWTON'S LAW PROVIDED REMARKABLE ACCURACY, IT:

- DOES NOT ACCOUNT FOR RELATIVISTIC EFFECTS.
- IMPLIES INSTANTANEOUS ACTION, CONFLICTING WITH SPECIAL RELATIVITY.

MODERN PHYSICS, VIA EINSTEIN'S GENERAL THEORY OF RELATIVITY, REINTERPRETS GRAVITY AS CURVATURE OF SPACETIME, BUT NEWTON'S LAW REMAINS AN EXCELLENT APPROXIMATION AT LOW VELOCITIES AND WEAK GRAVITATIONAL FIELDS.

EXPERIMENTAL EVIDENCE SUPPORTING THE LAW

HISTORICAL EXPERIMENTS

- HENRY CAVENDISH'S TORSION BALANCE (1798): MEASURED THE GRAVITATIONAL CONSTANT (G) AND CONFIRMED THE INVERSE SQUARE LAW.
- ORBITAL DATA: OBSERVATIONS OF PLANETARY MOTIONS ALIGN PERFECTLY WITH NEWTON'S PREDICTIONS.

MODERN CONFIRMATIONS

- SATELLITE TRACKING AND SPACE MISSIONS (E.G., GRAVITY PROBE B, LAGEOS SATELLITES).
- PRECISE MEASUREMENTS OF GRAVITATIONAL LENSING AND PLANETARY EPHEMERIDES.

APPLICATIONS AND MODERN RELEVANCE

ASTROPHYSICS AND COSMOLOGY

NEWTON'S LAW UNDERPINS:

- CALCULATIONS OF STAR SYSTEM DYNAMICS.
- FORMATION AND EVOLUTION OF GALAXIES.
- UNDERSTANDING GRAVITATIONAL INTERACTIONS IN COSMOLOGICAL MODELS.

ENGINEERING AND TECHNOLOGY

- SATELLITE DEPLOYMENT AND NAVIGATION SYSTEMS.
- SPACE EXPLORATION MISSIONS.
- DESIGN OF GRAVITATIONAL EXPERIMENTS.

LIMITATIONS AND ONGOING RESEARCH

- RESEARCHERS SEEK TO UNIFY GRAVITY WITH QUANTUM MECHANICS.
- INVESTIGATIONS INTO DARK MATTER AND DARK ENERGY INVOLVE DEVIATIONS FROM NEWTONIAN GRAVITY AT LARGE SCALES.

CONCLUSION: THE ENDURING LEGACY OF NEWTON'S LAW

NEWTON'S LAW OF UNIVERSAL GRAVITATION, WITH ITS FUNDAMENTAL PROPORTIONALITY TO MASS AND INVERSE SQUARE DEPENDENCE ON DISTANCE, REMAINS A CORNERSTONE OF PHYSICS. IT ELEGANTLY ENCAPSULATES THE UNIVERSAL FORCE THAT GOVERNS CELESTIAL BODIES, FROM PLANETS TO GALAXIES, AND EVEN INFLUENCES EVERYDAY PHENOMENA LIKE TIDES. WHILE MODERN PHYSICS HAS EXPANDED AND REFINED OUR UNDERSTANDING—PARTICULARLY THROUGH EINSTEIN'S GENERAL RELATIVITY—NEWTON'S LAW CONTINUES TO BE A VITAL TOOL, BOTH PEDAGOGICALLY AND PRACTICALLY.

THE PRINCIPLE THAT THE FORCE OF GRAVITY IS DIRECTLY PROPORTIONAL TO THE LAW OF GRAVITATION UNDERSCORES THE UNIVERSALITY AND SIMPLICITY OF THE NATURAL LAWS. IT EXEMPLIFIES HOW MATHEMATICAL RELATIONSHIPS CAN MIRROR PHYSICAL REALITY WITH ASTONISHING ACCURACY, PROVIDING INSIGHT INTO THE FUNDAMENTAL WORKINGS OF THE UNIVERSE. THE ENDURING RELEVANCE OF NEWTON'S GRAVITATIONAL LAW TESTIFIES TO ITS PROFOUND IMPACT ON SCIENCE, TECHNOLOGY, AND OUR COMPREHENSION OF THE COSMOS.

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