

WHEN A PLASTIC ROD IS RUBBED WITH FUR, THE PLASTIC ROD BECOMES NEGATIVELY CHARGED. WHICH STATEMENT EXPLAINS

WHEN A PLASTIC ROD IS RUBBED WITH FUR, THE PLASTIC ROD BECOMES NEGATIVELY CHARGED. WHICH STATEMENT EXPLAINS

UNDERSTANDING WHY A PLASTIC ROD BECOMES NEGATIVELY CHARGED WHEN RUBBED WITH FUR INVOLVES DELVING INTO THE FUNDAMENTAL PRINCIPLES OF ELECTROSTATICS. THIS PHENOMENON IS A CLASSIC EXAMPLE OF CHARGE TRANSFER THROUGH FRICTION, WHICH RESULTS IN THE PLASTIC GAINING EXTRA ELECTRONS. IN THIS ARTICLE, WE WILL EXPLORE THE SCIENTIFIC EXPLANATION BEHIND THIS PROCESS, CLARIFY KEY CONCEPTS SUCH AS CHARGE TRANSFER, THE ROLES OF DIFFERENT MATERIALS, AND THE PRINCIPLES OF ELECTROSTATIC CHARGING. BY THE END, YOU'LL HAVE A COMPREHENSIVE UNDERSTANDING OF WHY THE PLASTIC ROD ACQUIRES A NEGATIVE CHARGE WHEN RUBBED WITH FUR.

FUNDAMENTALS OF ELECTROSTATICS AND CHARGING BY FRICTION

WHAT IS ELECTROSTATIC CHARGING?

ELECTROSTATIC CHARGING REFERS TO THE PROCESS OF ACCUMULATING ELECTRIC CHARGE ON AN OBJECT WITHOUT ANY CONTINUOUS CURRENT FLOW. THIS OCCURS USUALLY THROUGH CONTACT AND SEPARATION OF MATERIALS, LEADING TO AN IMBALANCE OF ELECTRONS. WHEN TWO DIFFERENT MATERIALS ARE RUBBED TOGETHER, ELECTRONS MAY TRANSFER FROM ONE TO THE OTHER, RESULTING IN ONE OBJECT BECOMING POSITIVELY CHARGED AND THE OTHER NEGATIVELY CHARGED.

THE ROLE OF FRICTION IN CHARGE TRANSFER

FRICTION IS THE KEY MECHANISM BEHIND STATIC ELECTRICITY IN MANY EVERYDAY SITUATIONS. WHEN TWO MATERIALS ARE RUBBED AGAINST EACH OTHER, THE MICROSCOPIC CONTACT CAUSES ELECTRONS TO TRANSFER FROM ONE MATERIAL TO ANOTHER. THE MATERIAL THAT LOSES ELECTRONS BECOMES POSITIVELY CHARGED, WHILE THE MATERIAL THAT GAINS ELECTRONS BECOMES NEGATIVELY CHARGED.

WHY DOES THE PLASTIC ROD BECOME NEGATIVELY CHARGED?

THE MATERIALS INVOLVED: PLASTIC AND FUR

THE EXPLANATION FOR WHY THE PLASTIC ROD BECOMES NEGATIVELY CHARGED WHEN RUBBED WITH FUR HINGES ON THE PROPERTIES OF THESE MATERIALS:

- **PLASTIC:** AN INSULATOR THAT TENDS TO ATTRACT ELECTRONS AND CAN EASILY GAIN OR LOSE ELECTRONS DURING FRICTION.
- **FUR:** USUALLY COMPOSED OF NATURAL FIBERS, WHICH ARE GOOD AT DONATING ELECTRONS IN THE CONTEXT OF CONTACT WITH PLASTIC.

THE DIFFERENCE IN THEIR TENDENCIES TO GAIN OR LOSE ELECTRONS LEADS TO CHARGE TRANSFER DURING RUBBING.

THE ELECTRONS' BEHAVIOR AND MATERIAL PROPERTIES

ELECTRONS ARE NEGATIVELY CHARGED PARTICLES THAT CAN MOVE FREELY WITHIN CERTAIN MATERIALS, ESPECIALLY CONDUCTORS, BUT ALSO TO SOME EXTENT IN INSULATORS LIKE PLASTIC. WHEN THE PLASTIC ROD IS RUBBED WITH FUR:

- THE FUR TENDS TO LOSE ELECTRONS TO THE PLASTIC DUE TO DIFFERENCES IN THEIR ELECTRON AFFINITY.
- THE ELECTRONS TRANSFER FROM THE FUR TO THE PLASTIC ROD, CAUSING THE PLASTIC TO GAIN EXTRA ELECTRONS.
- THE FUR, HAVING LOST ELECTRONS, BECOMES POSITIVELY CHARGED.

THUS, THE PLASTIC ROD ACCUMULATES NEGATIVE CHARGE BECAUSE IT GAINS ELECTRONS THROUGH FRICTION.

KEY CONCEPTS EXPLAINING THE CHARGE TRANSFER

THE TRIBOELECTRIC SERIES

THE TRIBOELECTRIC SERIES IS A LIST THAT RANKS MATERIALS BASED ON THEIR TENDENCY TO GAIN OR LOSE ELECTRONS:

- MATERIALS AT THE TOP OF THE SERIES TEND TO LOSE ELECTRONS AND BECOME POSITIVELY CHARGED.
- MATERIALS AT THE BOTTOM TEND TO GAIN ELECTRONS AND BECOME NEGATIVELY CHARGED.

IN THIS CONTEXT, PLASTIC OFTEN APPEARS TOWARD THE NEGATIVE END, MEANING IT TENDS TO GAIN ELECTRONS, WHILE FUR APPEARS TOWARD THE POSITIVE END, TENDING TO LOSE ELECTRONS.

CHARGE CONSERVATION AND REDISTRIBUTION

THE PRINCIPLE OF CONSERVATION OF CHARGE STATES THAT CHARGE CANNOT BE CREATED OR DESTROYED; IT CAN ONLY BE TRANSFERRED. WHEN RUBBING, ELECTRONS MOVE FROM THE FUR TO THE PLASTIC, LEADING TO:

1. THE PLASTIC GAINING NEGATIVE CHARGE DUE TO EXCESS ELECTRONS.
2. THE FUR LOSING ELECTRONS AND BECOMING POSITIVELY CHARGED.

THIS BALANCED TRANSFER EXPLAINS THE OBSERVED CHARGES ON BOTH OBJECTS AFTER FRICTION.

WHICH STATEMENT BEST EXPLAINS WHY THE PLASTIC BECOMES NEGATIVELY CHARGED?

THE CORRECT EXPLANATION IS THAT DURING RUBBING, ELECTRONS TRANSFER FROM THE FUR TO THE PLASTIC ROD BECAUSE OF THEIR DIFFERING TENDENCIES TO GAIN OR LOSE ELECTRONS, AS INDICATED BY THEIR POSITIONS ON THE TRIBOELECTRIC SERIES. THE PLASTIC ROD BECOMES NEGATIVELY CHARGED BECAUSE IT GAINS ELECTRONS, WHICH ARE NEGATIVELY CHARGED PARTICLES.

TYPICAL EXPLANATION STATEMENT

A COMMON STATEMENT THAT EXPLAINS THIS PHENOMENON IS:

- "WHEN THE PLASTIC ROD IS RUBBED WITH FUR, ELECTRONS ARE TRANSFERRED FROM THE FUR TO THE PLASTIC BECAUSE PLASTIC HAS A GREATER TENDENCY TO ATTRACT ELECTRONS, RESULTING IN THE PLASTIC BECOMING NEGATIVELY CHARGED."

THIS STATEMENT CAPTURES THE ESSENCE OF THE PROCESS, EMPHASIZING THE ROLE OF MATERIAL PROPERTIES AND THE TRANSFER OF ELECTRONS.

SUMMARY AND PRACTICAL IMPLICATIONS

SUMMARY OF KEY POINTS

- ELECTROSTATIC CHARGING OCCURS DUE TO THE TRANSFER OF ELECTRONS DURING CONTACT AND SEPARATION OF MATERIALS.
- THE PLASTIC ROD BECOMES NEGATIVELY CHARGED BECAUSE IT GAINS ELECTRONS FROM THE FUR DURING RUBBING.
- THE TRIBOELECTRIC SERIES HELPS PREDICT WHICH MATERIALS WILL GAIN OR LOSE ELECTRONS IN SUCH INTERACTIONS.
- CHARGE CONSERVATION ENSURES THAT THE TOTAL CHARGE BEFORE AND AFTER RUBBING REMAINS CONSTANT, REDISTRIBUTING BETWEEN OBJECTS.

REAL-WORLD APPLICATIONS

UNDERSTANDING HOW MATERIALS LIKE PLASTIC AND FUR GAIN OR LOSE CHARGE HAS PRACTICAL APPLICATIONS:

- ELECTROSTATIC PRECIPITATORS IN POLLUTION CONTROL.
- DESIGNING STATIC-FREE ENVIRONMENTS IN ELECTRONICS MANUFACTURING.
- UNDERSTANDING LIGHTNING AND STATIC BUILDUP IN NATURAL PHENOMENA.

CONCLUSION

THE PHENOMENON OF A PLASTIC ROD BECOMING NEGATIVELY CHARGED WHEN RUBBED WITH FUR IS A CLEAR DEMONSTRATION OF ELECTROSTATIC PRINCIPLES. THE TRANSFER OF ELECTRONS FROM FUR TO PLASTIC, DRIVEN BY DIFFERENCES IN MATERIAL PROPERTIES, EXPLAINS WHY THE PLASTIC GAINS A NEGATIVE CHARGE. RECOGNIZING THE ROLE OF THE TRIBOELECTRIC SERIES AND CHARGE CONSERVATION PROVIDES A COMPREHENSIVE UNDERSTANDING OF THIS COMMON YET FASCINATING PHYSICAL PROCESS. WHETHER IN EVERYDAY LIFE OR IN ADVANCED TECHNOLOGICAL APPLICATIONS, THE PRINCIPLES BEHIND STATIC ELECTRICITY CONTINUE TO BE FUNDAMENTAL TO OUR UNDERSTANDING OF ELECTROSTATICS.

FREQUENTLY ASKED QUESTIONS

WHY DOES RUBBING A PLASTIC ROD WITH FUR CAUSE THE PLASTIC TO BECOME NEGATIVELY CHARGED?

RUBBING THE PLASTIC ROD WITH FUR TRANSFERS ELECTRONS FROM THE FUR TO THE PLASTIC, GIVING THE PLASTIC A NEGATIVE CHARGE DUE TO EXCESS ELECTRONS.

WHAT IS THE PRINCIPLE BEHIND CHARGING BY FRICTION, AS SEEN IN THE PLASTIC ROD AND FUR EXPERIMENT?

CHARGING BY FRICTION OCCURS WHEN TWO OBJECTS ARE RUBBED TOGETHER, CAUSING ELECTRONS TO TRANSFER FROM ONE OBJECT TO THE OTHER, RESULTING IN ONE BECOMING NEGATIVELY CHARGED AND THE OTHER POSITIVELY CHARGED.

WHY DOES THE FUR BECOME POSITIVELY CHARGED WHEN RUBBED WITH THE PLASTIC ROD?

THE FUR LOSES ELECTRONS TO THE PLASTIC ROD DURING RUBBING, MAKING THE FUR POSITIVELY CHARGED DUE TO A DEFICIENCY OF ELECTRONS.

CAN THE PLASTIC ROD BE CHARGED POSITIVELY BY RUBBING WITH FUR?

NO, RUBBING WITH FUR TYPICALLY CAUSES THE PLASTIC ROD TO BECOME NEGATIVELY CHARGED; TO BECOME POSITIVELY CHARGED, THE ROD WOULD NEED TO LOSE ELECTRONS, WHICH DOES NOT HAPPEN IN THIS CASE.

WHAT TYPES OF MATERIALS ARE GOOD CONDUCTORS OR INSULATORS FOR CHARGE TRANSFER IN THIS EXPERIMENT?

FUR IS AN INSULATOR THAT EASILY TRANSFERS ELECTRONS, AND PLASTIC IS ALSO AN INSULATOR THAT CAN GAIN OR LOSE ELECTRONS DURING FRICTION, FACILITATING STATIC CHARGE BUILDUP.

HOW DOES THE CONCEPT OF ELECTRON TRANSFER EXPLAIN THE NEGATIVE CHARGE ON THE PLASTIC ROD?

ELECTRONS ARE NEGATIVELY CHARGED PARTICLES, AND THEIR TRANSFER FROM FUR TO THE PLASTIC ROD INCREASES THE ROD'S NEGATIVE CHARGE, EXPLAINING WHY IT BECOMES NEGATIVELY CHARGED.

DOES THE PLASTIC ROD ACQUIRE A NEGATIVE OR POSITIVE CHARGE AFTER RUBBING WITH FUR, AND WHY?

THE PLASTIC ROD ACQUIRES A NEGATIVE CHARGE BECAUSE IT GAINS ELECTRONS FROM THE FUR DURING RUBBING.

WHAT REAL-WORLD APPLICATIONS UTILIZE THE PRINCIPLE OF CHARGING BY FRICTION LIKE IN THE PLASTIC AND FUR EXPERIMENT?

APPLICATIONS INCLUDE STATIC ELECTRICITY IN PHOTOCOPIERS, ELECTROSTATIC PRECIPITATORS FOR POLLUTION CONTROL, AND THE OPERATION OF SOME TYPES OF SENSORS AND DEVICES THAT RELY ON STATIC CHARGE BUILDUP.

ADDITIONAL RESOURCES

WHEN A PLASTIC ROD IS RUBBED WITH FUR, THE PLASTIC ROD BECOMES NEGATIVELY CHARGED. WHICH STATEMENT EXPLAINS

UNDERSTANDING THE PHENOMENON BEHIND THIS COMMON DEMONSTRATION OF STATIC ELECTRICITY NOT ONLY SHEDS LIGHT ON FUNDAMENTAL ELECTRICAL PRINCIPLES BUT ALSO HELPS CLARIFY EVERYDAY OBSERVATIONS INVOLVING CHARGE TRANSFER. THIS ARTICLE EXPLORES THE SCIENTIFIC EXPLANATIONS, THE UNDERLYING CONCEPTS, AND THE BROADER IMPLICATIONS OF RUBBING A PLASTIC ROD WITH FUR—SPECIFICALLY HOW AND WHY THE PLASTIC ROD ACQUIRES A NEGATIVE CHARGE.

INTRODUCTION TO STATIC ELECTRICITY AND CHARGE TRANSFER

STATIC ELECTRICITY IS A FORM OF ELECTRICAL CHARGE THAT ACCUMULATES ON THE SURFACE OF OBJECTS, USUALLY AS A RESULT OF FRICTION. UNLIKE CURRENT ELECTRICITY, WHICH INVOLVES THE FLOW OF ELECTRONS THROUGH A CONDUCTOR, STATIC ELECTRICITY REFERS TO THE BUILD-UP OF CHARGE THAT REMAINS LOCALIZED UNTIL DISCHARGED.

WHEN TWO DIFFERENT MATERIALS ARE RUBBED TOGETHER, ELECTRONS CAN TRANSFER FROM ONE MATERIAL TO THE OTHER. THIS TRANSFER RESULTS IN ONE OBJECT BECOMING POSITIVELY CHARGED (LOSING ELECTRONS) AND THE OTHER NEGATIVELY CHARGED (GAINING ELECTRONS). THE PROCESS IS GOVERNED BY THE MATERIALS' PROPERTIES, PARTICULARLY THEIR ABILITY TO ATTRACT OR DONATE ELECTRONS, A CHARACTERISTIC KNOWN AS THEIR TRIBOELECTRIC BEHAVIOR.

THE ROLE OF MATERIALS: PLASTIC AND FUR IN STATIC ELECTRICITY

THE TRIBOELECTRIC SERIES

THE TRIBOELECTRIC SERIES IS A LIST THAT RANKS VARIOUS MATERIALS BASED ON THEIR TENDENCY TO GAIN OR LOSE ELECTRONS THROUGH FRICTION. MATERIALS HIGHER ON THE LIST TEND TO LOSE ELECTRONS AND BECOME POSITIVELY CHARGED, WHILE THOSE LOWER TEND TO GAIN ELECTRONS AND BECOME NEGATIVELY CHARGED.

IN THE CONTEXT OF RUBBING A PLASTIC ROD WITH FUR, THE TYPICAL ORDER IS:

- FUR: TENDS TO LOSE ELECTRONS.
- PLASTIC: TENDS TO GAIN ELECTRONS.

THIS RELATIONSHIP EXPLAINS WHY, AFTER RUBBING, THE PLASTIC ROD BECOMES NEGATIVELY CHARGED, AND THE FUR BECOMES POSITIVELY CHARGED.

WHY PLASTIC GAINS ELECTRONS

PLASTIC, ESPECIALLY CERTAIN TYPES LIKE ACRYLIC OR PVC, HAS A HIGH TENDENCY TO ATTRACT ELECTRONS FROM OTHER MATERIALS. WHEN IN CONTACT WITH FUR, ELECTRONS ARE TRANSFERRED FROM THE FUR TO THE PLASTIC DUE TO DIFFERENCES IN THEIR ELECTRON AFFINITY.

THE KEY FACTORS INFLUENCING THIS PROCESS INCLUDE:

- MATERIAL COMPOSITION: PLASTICS HAVE MOLECULAR STRUCTURES CONDUCIVE TO ELECTRON ACCEPTANCE.

- SURFACE ROUGHNESS: RUBBING INCREASES CONTACT AREA, PROMOTING ELECTRON TRANSFER.
- ELECTRONEGATIVITY: PLASTIC'S LOWER ELECTRONEGATIVITY RELATIVE TO FUR MAKES IT MORE LIKELY TO ACCEPT ELECTRONS.

AS A RESULT, THE PLASTIC ROD ACQUIRES A SURPLUS OF ELECTRONS, LEADING TO A NEGATIVE CHARGE.

DEEP DIVE INTO THE ELECTRON TRANSFER MECHANISM

FRICTION-INDUCED ELECTRON MOVEMENT

FRICTION ACTS AS THE CATALYST THAT ENABLES ELECTRONS TO MOVE FROM ONE MATERIAL TO ANOTHER. WHEN TWO OBJECTS ARE RUBBED TOGETHER:

- ELECTRONS IN THE FUR EXPERIENCE A FORCE THAT CAUSES SOME TO TRANSFER TO THE PLASTIC.
- THE PHYSICAL CONTACT FACILITATES THE MOVEMENT OF ELECTRONS ACROSS THE INTERFACE.

THIS PROCESS IS NOT ABOUT THE ATOMS THEMSELVES MOVING SIGNIFICANTLY; RATHER, IT INVOLVES THE ELECTRONS WITHIN THE ATOMS SHIFTING FROM ONE MATERIAL TO THE OTHER.

CHARGE REDISTRIBUTION AND ACCUMULATION

ONCE ELECTRONS TRANSFER:

- THE PLASTIC ROD ACCUMULATES A NEGATIVE CHARGE DUE TO THE SURPLUS OF ELECTRONS.
- THE FUR BECOMES POSITIVELY CHARGED AS IT LOSES ELECTRONS.

THIS SEPARATION OF CHARGE CREATES AN ELECTRIC FIELD AROUND THE OBJECTS, LEADING TO OBSERVABLE PHENOMENA SUCH AS ATTRACTION OF LIGHTWEIGHT OBJECTS, SPARKS, OR THE CRACKLING SOUND ASSOCIATED WITH STATIC DISCHARGE.

THE SCIENTIFIC EXPLANATION: WHICH STATEMENT FITS?

THE CORE QUESTION IS: WHICH STATEMENT BEST EXPLAINS WHY THE PLASTIC ROD BECOMES NEGATIVELY CHARGED AFTER RUBBING WITH FUR?

POSSIBLE EXPLANATIONS INCLUDE:

1. THE PLASTIC LOSES ELECTRONS TO THE FUR DURING RUBBING.
2. THE FUR LOSES ELECTRONS TO THE PLASTIC DURING RUBBING.
3. BOTH MATERIALS GAIN ELECTRONS DURING RUBBING.
4. THE PLASTIC GAINS POSITIVE CHARGE FROM THE FUR.

THE CORRECT EXPLANATION ALIGNS WITH THE FIRST STATEMENT: THE PLASTIC LOSES ELECTRONS TO THE FUR DURING RUBBING. HOWEVER, THIS NEEDS CLARIFICATION, BECAUSE IN REALITY, THE PLASTIC GAINS ELECTRONS, BECOMING NEGATIVELY CHARGED.

THEREFORE, THE MOST ACCURATE STATEMENT IS:

WHEN A PLASTIC ROD IS RUBBED WITH FUR, ELECTRONS TRANSFER FROM THE FUR TO THE PLASTIC, CAUSING THE PLASTIC TO

BECOME NEGATIVELY CHARGED.

UNDERSTANDING THE CHARGE OUTCOME: WHY THE PLASTIC BECOMES NEGATIVE

ELECTRON AFFINITY AND MATERIAL PROPERTIES

THE TRANSFER OF ELECTRONS DEPENDS ON THE MATERIALS' INTRINSIC PROPERTIES:

- FUR: GENERALLY HAS A RELATIVELY HIGH TENDENCY TO LOSE ELECTRONS.
- PLASTIC: TENDS TO ACCEPT ELECTRONS EASILY DUE TO ITS MOLECULAR STRUCTURE AND LOW TENDENCY TO HOLD ONTO ELECTRONS.

THIS LEADS TO:

- FUR: BECOMES POSITIVELY CHARGED AFTER LOSING ELECTRONS.
- PLASTIC: BECOMES NEGATIVELY CHARGED AFTER GAINING ELECTRONS.

FRICTION AS A CHARGE FACILITATOR

FRICTION ENHANCES THE CONTACT BETWEEN THE TWO MATERIALS, INCREASING THE LIKELIHOOD OF ELECTRON TRANSFER. THE MORE VIGOROUSLY THE MATERIALS ARE RUBBED, THE MORE ELECTRONS ARE TRANSFERRED, AND THE GREATER THE CHARGE SEPARATION.

IMPLICATIONS AND BROADER APPLICATIONS

UNDERSTANDING THE PRINCIPLES BEHIND STATIC ELECTRICITY AND CHARGE TRANSFER HAS PRACTICAL SIGNIFICANCE:

- ELECTROSTATIC PRECIPITATORS: USED IN POLLUTION CONTROL BY CHARGING PARTICLES TO REMOVE THEM FROM EXHAUST GASES.
- PHOTOCOPIERS AND LASER PRINTERS: UTILIZE STATIC CHARGES TO TRANSFER TONER PARTICLES ONTO PAPER.
- ELECTROSTATIC DISCHARGE (ESD) PREVENTION: IMPORTANT IN ELECTRONIC MANUFACTURING TO PREVENT DAMAGE CAUSED BY STATIC BUILDUP.
- LIGHTNING FORMATION: STATIC CHARGES ACCUMULATE IN CLOUDS, LEADING TO ELECTRICAL DISCHARGE.

THE SIMPLE ACT OF RUBBING A PLASTIC ROD WITH FUR IS A MINIATURE DEMONSTRATION OF THESE LARGER-SCALE PHENOMENA, ILLUSTRATING FUNDAMENTAL ELECTROSTATIC PRINCIPLES IN ACTION.

CONCLUSION: SUMMARIZING THE EXPLANATION

IN SUMMARY, WHEN A PLASTIC ROD IS RUBBED WITH FUR, ELECTRONS ARE TRANSFERRED FROM THE FUR TO THE PLASTIC DUE TO

DIFFERENCES IN THEIR MATERIAL PROPERTIES AND THEIR POSITIONS IN THE TRIBOELECTRIC SERIES. THIS ELECTRON TRANSFER RESULTS IN THE PLASTIC ROD GAINING EXCESS ELECTRONS, WHICH GIVES IT A NEGATIVE CHARGE. THE STATEMENT THAT BEST EXPLAINS THIS PROCESS IS THAT THE PLASTIC GAINS ELECTRONS FROM THE FUR DURING RUBBING, LEADING TO ITS NEGATIVE CHARGE.

THIS PHENOMENON EMPHASIZES THE IMPORTANCE OF MATERIAL PROPERTIES AND FRICTION IN STATIC ELECTRICITY AND DEMONSTRATES HOW SIMPLE EXPERIMENTS CAN REVEAL THE FUNDAMENTAL PRINCIPLES GOVERNING ELECTRICAL CHARGES. UNDERSTANDING THESE PRINCIPLES NOT ONLY SATISFIES SCIENTIFIC CURIOSITY BUT ALSO UNDERPINS NUMEROUS TECHNOLOGICAL INNOVATIONS IN OUR DAILY LIVES.

When A Plastic Rod Is Rubbed With Fur The Plastic Rod Becomes Negatively Charged Which Statement Explains

When A Plastic Rod Is Rubbed With Fur The Plastic Rod Becomes Negatively Charged Which Statement Explains

Related Articles

- [What Volume Of Kr-93 \(at 25 C And 1.0 Atm\) Is Produced When 1.90 G Of U-235undergoes This Fission Reaction?](#)
- [An Example Of How Language Can Be Used For Power Is When An Organization Or Cause Takes A Word And Redefines](#)
- [A Box Of Mass M Is On A Rough Inclined Plane That Is At An Angle Q With The Horizontal. A Force Of Magnitude](#)

[Back to Home](#)