

18. Planets X and Y orbit the same star.

The average distance between planet X and the star is five times greater than the average distance between planet Y and the star.

What is $\frac{\text{orbital period of planet X}}{\text{orbital period of planet Y}}$?

- A. $\sqrt[3]{5}$
B. $\sqrt{5}$
C. $\sqrt[3]{5^2}$
D. $\sqrt{5^2}$

Kepler's Law

$$T^2 \propto R^3$$

$$\frac{T_X^2}{T_Y^2} = \frac{R_X^3}{R_Y^3}$$

$$R_X = 5 \cdot R_Y$$

$$\therefore \frac{R_X}{R_Y} = 5$$

$$\therefore \frac{T_X}{T_Y} = \left(\frac{R_X}{R_Y}\right)^{\frac{3}{2}} = 5^{\frac{3}{2}} = \sqrt{5^3}$$

(D)

19. A charged rod is brought near an initially neutral metal sphere without touching it.

When the sphere is grounded (earthed), there is an electric current for a short time from the sphere to the ground.



direction of conventional current



e^- flow

(e^- flow is opposite to the direction of conventional current.)

The ground connection is then removed.

What are the charge on the rod and the charge induced on the sphere when the connection is removed?

	Charge on the rod	Charge induced on the sphere
A.	negative	negative
B.	negative	positive
C.	positive ✓	negative ✓
D.	positive ✓	positive

(C)

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Physics Express, 1962 Abstracts and condensations from various Soviet journals Radio Engineering & Electronic Physics, 1984 **Canadian Journal of Chemistry**, 1968-04 Effects of Ionizing Radiation Seymour Abrahamson, Leif E. Peterson, 1998-06-22 In the decades since the atomic bombing of Hiroshima and Nagasaki economic and political trends have opened avenues for radiation research while breakthroughs in molecular biology have shed light on radiation's effect on the human body This volume comprehensively reviews what is now known about human exposure to ionizing radiation with emphasis on unifying the scientific disciplines that inform this topic Today's most widely recognized experts in the field examine four broad areas Physics and dosimetry including the various systems of A bomb survivor dosimetry the effect on survivors of subsequent medical radiation and chromosome aberrations as biomarkers Cancer statistics and epidemiology including a historical review of leukemia risk in A bomb survivors the incidence of solid cancer and resulting mortality and the results of studies of workers exposed to low level radiation Genetics including the path from radiation exposure to cellular effects carcinogenesis and mutagenesis Experts discuss the interaction between radiation and other cancer risk factors review models of radiation induced cancer and report on other aspects of molecular biology Psychological effects of radiation catastrophes as seen at Hiroshima and Nagasaki Three Mile Island and Chernobyl and consequences of the Atomic Bomb Survivors Relief Law *Impacts in Precambrian Shields* Jüri Plado, Lauri J. Pesonen, 2002-06-13 This multiauthor book is a compilation of fourteen papers that result from activities within the scientific programme Response of the Earth System to Impact Processes IMPACT of the European Science Foundation The program deals with all aspects of meteorite impact research and operates through workshops exchange programs and short courses Most of the papers are initiated from the 4th IMPACT workshop Meteorite Impacts in Precambrian Shields that took place in Lappajärvi Finland in 2000 The volume begins with a detailed view of thirty confirmed meteorite impact structures found in the Fennoscandian Shield and its nearest surroundings The following papers describe impact structures in different areas *Materials and Processes* Barrie D. Dunn, 2015-12-29 The objective of this book is to assist scientists and engineers select the ideal material or manufacturing process for particular applications these could cover a wide range of fields from light weight structures to electronic hardware The book will help in problem solving as it also presents more than 100 case studies and failure investigations from the space sector that can by analogy be applied to other industries Difficult to find material data is included for reference The sciences of metallic primarily and organic materials presented throughout the book demonstrate how they can be applied as an integral part of spacecraft product assurance schemes which involve quality material and processes evaluations and the selection of mechanical and component parts In this successor edition which has been revised and updated engineering problems associated with critical spacecraft hardware and the space environment are highlighted by over 500 illustrations including micrographs and fractographs Space hardware captured by astronauts and returned to Earth from long durations

in space are examined Information detailed in the Handbook is applicable to general terrestrial applications including consumer electronics as well as high reliability systems associated with aeronautics medical equipment and ground transportation This Handbook is also directed to those involved in maximizing the reliability of new materials and processes for space technology and space engineering It will be invaluable to engineers concerned with the construction of advanced structures or mechanical and electronic sub systems

Thermal Energy Yatish T. Shah,2018-01-12 The book details sources of thermal energy methods of capture and applications It describes the basics of thermal energy including measuring thermal energy laws of thermodynamics that govern its use and transformation modes of thermal energy conventional processes devices and materials and the methods by which it is transferred It covers 8 sources of thermal energy combustion fusion solar fission nuclear geothermal microwave plasma waste heat and thermal energy storage In each case the methods of production and capture and its uses are described in detail It also discusses novel processes and devices used to improve transfer and transformation processes

Scientific American ,1885 Monthly magazine devoted to topics of general scientific interest

Deglacial History and Relative Sea-level Changes, Northern New England and Adjacent Canada Thomas K. Weddle,Michael J. Retelle,2000 The 13 papers in this collection examine the coastal regions the Gulf of Maine and the continental shelf off of Atlantic Canada in context with new radiocarbon age analyses providing a detailed history of climate changes marine transgression emergence and relative sea level history Specific topics include deglaciation of the Gulf of Maine Late Quaternary morphogenesis of a marine limit delta plain in southwest Maine morainal banks and the deglaciation of coastal Maine and glacial dynamics deglaciation and marine invasion in southern Quebec Material originated at a March 1998 symposium held in Maine at the 33rd Annual Meeting of the Northeastern Section of the Geological Society of America Weddle is affiliated with the Maine Geological Survey Retelle teaches geology at Bates College Annotation copyrighted by Book News Inc Portland OR

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Proceedings of the Sixth Meeting on Ferroelectricity ,1985 **AIAA Journal** American Institute of Aeronautics and Astronautics,2006 *The Emergence of Unsaturated Soil Mechanics* National Research Council Canada,1999 This publication is an assemblage of selected papers that have been authored or co authored by D G Fredlund The substance of these papers documents the milestones of both the science of unsaturated soil mechanics and the career of the author during his tenure as a faculty member in the Department of Civil Engineering at the University of Saskatchewan Saskatoon Canada

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