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This is the coursebook for Scientific Communication II, a one-semester, 2-credit, advanced research writing course for science students in the School of Biological Sciences and School of Physical and Mathematical Sciences at Nanyang Technological University (NTU). This course builds on the foundation course, Scientific Communication I. The broad aim of this course is to familiarise you with the linquistic features and

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Displacement Due To Irradiation \* Thermal And Displacement Spikes \* Due To Irradiation \* Effect Due To Neutron Capture \* Radiation Effects In Organic Compounds \* Reactor Use Of Aluminum MECHANICAL SCIENCE. The Mechanical Science Handbook includes information on diesel engines, heat exchangers, pumps, valves, and miscellaneous mechanical components. \* Diesel Engines \* Fundamentals Of The Diesel Cycle \* Diesel Engine Speed, Fuel Controls, And Protection \* Types Of Heat Exchangers \* Heat Exchanger Applications \* Centrifugal Pumps \* Centrifugal Pump Operation \* Positive Displacement Pumps \* Valve Functions And Basic Parts \* Types Of Valves \* Valve Actuators \* Air Compressors \* Hydraulics \* Boilers \* Cooling Towers \* Demineralizers \* Pressurizers \* Steam Traps \* Filters And Strainers NUCLEAR PHYSICS AND REACTOR THEORY. The Nuclear Physics and Reactor Theory Handbook includes information on atomic and nuclear physics; neutron characteristics; reactor theory and nuclear parameters; and the theory of reactor operation. \* Atomic Nature Of Matter \* Chart Of The Nuclides \* Mass Defect And Binding Energy Modes Of Radioactive Decay \* Radioactivity \* Neutron Interactions \* Nuclear Fission \* Energy Release From Fission \* Interaction Of Radiation With Matter illustrations that will help you understand the laws of physics \* Neutron Sources \* Nuclear Cross Sections And Neutron Flux \* Reaction Rates AND succeed in your course! Important Notice: Media content \* Neutron Moderation \* Prompt And Delayed Neutrons \* Neutron Flux Spectrum \* Neutron Life Cycle \* Reactivity \* Reactivity Coefficients \* Neutron Poisons \* Xenon \* Samarium And Other Fission Product Poisons \* Control Rods \* Subcritical Multiplication \* Reactor Kinetics \* Reactor

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Review for in depth study • Mind maps for clarity of concepts • All MCQs with explanation against the correct option • Some important questions developed by 'Oswaal Panel' of experts • Previous Year's Questions Fully Solved • Complete Latest NCERT Textbook & Intext Questions Fully Solved • Quick Response (QR Codes) for Quick Revision on your Mobile Phones / Tablets • Expert Advice how to score more suggestion and ideas shared • Some commonly made errors highlight the most common and unidentified mistakes made by students at all levels ISC PHYSICS Book 2 for Class -XII Cengage Learning The contributions gathered here demonstrate how categorical ontology can provide a basis for linking three important basic sciences: mathematics, physics, and philosophy. Category theory is a new formal ontology that shifts the main focus from objects to processes. The book approaches formal ontology in the original sense put forward by the philosopher Edmund Husserl, namely as a science that deals with entities that can be exemplified in all spheres and domains of reality. It is a dynamic, processual, and non-substantial ontology in which all entities can be treated as transformations, and in which objects are merely the sources and aims of these transformations. Thus, in a rather surprising way, when employed as a formal ontology, category theory can unite seemingly disparate disciplines in contemporary science and the humanities, such as physics, mathematics and philosophy, but also computer and complex systems science.

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This book gives a clear and comprehensive exposition of Niels Bohr's philosophy of physics. Bohr's ideas are of major importance, for they are the source of the Copenhagen interpretation of quantum physics; yet they are obscure, and call for the sort of close analysis that this book provides. The book describes the historical background of the physics from which Bohr's ideas grew. The core of the book is a detailed analysis of Bohr's arguments for complementarity and of the interpretation which he put upon it. Special emphasis is placed throughout on the contrasting views of Einstein, and the great debate between Bohr and Einstein is thoroughly examined. The book traces the philosophical influences on Bohr, and unravels the realist and antirealist strands in his thinking. Bohr's philosophy is critically assessed in the light of recent developments in the foundations of quantum physics (the work of Bell and others) and in philosophy (the realism-anti-realism debate) and it is revealed as being much more subtle and sophisticated than it is generally taken to be. While the book will be of interest to specialists, it is written in a style that will make it accessible to those who have no specialist knowledge of the relevant physics and philosophy.

The Pearson Guide to Objective Physics for the IIT-JEE 2012: (All India Engineering Entrance Examination) Springer Nature This two-volume manual features detailed solutions to 20 percent of the end-of-chapter problems from the text, plus lists of important equations and concepts, other study aids, and answers to selected endof-chapter questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.