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the perfect grounding for students intending to take their studies to a more advanced level features introductory page to each unit to bring out the relevance of the material to everyday life simple questions at the end of each unit to consolidate learning helpful revision summary

this extensively revised 4th edition of an established physics text offers coverage of the recent developments at a as level with each topic explained in straightforward terms starting at an appropriate level 7 8 of the national curriculum

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primarily intended for the undergraduate students of all branches of engineering this textbook provides a sound understanding of the fundamental concepts and principles of physics in a simple and easy to understand language organized in 18 chapters the book exposes students to the fundamentals of oscillations and waves interference of light diffraction polarization optical instruments laser fibre optics mechanics and special theory of relativity apart from giving a detailed theoretical analysis of these topics it also provides a deep insight on various advanced topics such as acoustics ultrasonics and nanotechnology along with their applications the pedagogical aids such as solved numerical problems and review questions are also included at the end of each chapter key features numerous solved examples to stress on the conceptual understanding chapter end model questions to probe a student s grasp of the subject matter chapter end objective type questions with answers for self evaluation by the students

m u s mathematical uniform space is a new number of  $\pi$  representing the reality of the universe in which we live with this number we created a new geometry hyperelliptical geometry which will provide the unification of physics thus uniting the theory of relativity and quantum theory a new geometry for a new mathematics and a new physics isbn 978 65 00 98107 0

the mechanics of similarity encompasses the analysis of dimensions performed by various procedures the gasdynamic similarity and the model technology the analysis of dimensions delivers the dimensionless numbers by which specific physical challenges can be described with a reduced number of variables thereby the assessment of physical problems is facilitated for fluid dynamics and all sorts of heat transfer the discipline of the mechanics of similarity was so important in the past that the historical background is highlighted of all the persons who have contributed to the development of this discipline the goal of the classical gasdynamic similarity was to find rules which enables the aerodynamic engineer to perform transformations from existing flow fields to others which meet geometrical and other specific flow field parameters most of these rules and findings do no longer play a role today because a lot of potent experimental and theoretical numerical methods are now available this problem is addressed in the book a recent investigation regarding the longitudinal aerodynamics of space vehicles has revealed that there exist other astonishing similarities for hypersonic and supersonic flight mach numbers it seems that obviously most of the longitudinal aerodynamics is independent from the geometrical configurations of the space vehicle considered if a simple transformation is applied a section of this book is devoted to these new findings

this well received book now in its fifth edition presents the subject matter in a pedagogically sound manner with focus on teaching problem solving the specific needs of these students have influenced the selection of topics for inclusion in the book the book provides students with a solid understanding of the fundamental concepts with due emphasis on developing skills to solve exercise problems aimed at both testing and extending the knowledge of the students divided into 23 chapters the book comprises topics on four major areas mechanics optics electricity and electronics and modern physics including quantum mechanics and lasers in this fifth edition two new chapters on acoustics and heat and thermodynamics are incorporated to widen the coverage and enhance the usefulness of this text this book is intended for the undergraduate students of physics as well as for the first year engineering students of several disciplines

section i relativity section ii quantum mechanics section iii atomic physics section iv molecular physics section v nuclear physics section vi solid state physics section vii solid state devices section viii electronics index

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this volume constitutes the state of the art in active interrogation widely recognized as indispensable methods for addressing current and future nuclear security needs written by a leading group of science and technology experts this comprehensive reference presents technologies and systems in the context of the fundamental physics challenges and practical requirements it compares the features limitations technologies and impact of passive and active measurement techniques describes radiation sources for active interrogation including electron and ion accelerators intense lasers and radioisotope based sources and it describes radiation detectors used for active interrogation entire chapters are devoted to data acquisition and processing systems modeling and simulation data interpretation and algorithms and a survey of working active measurement systems active interrogation in nuclear security is structured to appeal to a range of audiences including graduate students active researchers in the field and policy analysts the first book devoted entirely to active interrogation presents a focused review of the relevant physics surveys available technology analyzes scientific and technology trends provides historical and

policy context igor jovanovic is a professor of nuclear engineering and radiological sciences at the university of michigan and has previously also taught at penn state university and purdue university he received his ph d from university of california berkeley and worked as physicist at lawrence livermore national laboratory dr jovanovic has made numerous contributions to the science and technology of radiation detection as well as the radiation sources for use in active interrogation in nuclear security he has taught numerous undergraduate and graduate courses in areas that include radiation detection nuclear physics and nuclear security at university of michigan dr jovanovic is the director of neutron science laboratory and is also associated with the center for ultrafast optical science anna erickson is an assistant professor in the nuclear and radiological engineering program of the g w woodruff school of mechanical engineering at georgia institute of technology previously she was a postdoctoral researcher in the advanced detectors group at lawrence livermore national laboratory dr erickson received her phd from massachusetts institute of technology with a focus on radiation detection for active interrogation applications her research interests focus on nuclear non proliferation including antineutrino analysis and non traditional detector design and characterization she teaches courses in advanced experimental detection for reactor and nuclear nonproliferation applications radiation dosimetry and fast reactor analysis

a textbook of engineering physics

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