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this book which deals with the various topics in the subject of strength of materials exhaustively it present the subject matter in a lucid direct and easily understandable style a large number of worked out simple moderate and difficult problems are arranged in a systematic manner to enable the students to grasp the subject effectively from examination point of view the book comprises of 18 chapters including advance topics covering the syllabi in the subject of strength of materials of all the indian universities and competitive

examinations as well it contains experiments at the end of the chapters to enable the students to have an access to the practical aspects of the subject

a comprehensive and lucidly written book strength of materials captures the syllabus of most major indian universities and competitive examinations as well the book discusses everything under solids and its mechanics such as providing different aspects of stresses and provides the reader with a deeper interest in the subject all within aptly formed chapters it also contains typical examples useful for students appearing in competitive examinations in particular and other students in general highlights objective type questions and a large number of unsolved examples for a complete grasp of the subject

the book has been throughly revised several new articles have been added specifically in chapters in mortar concrete paint varnishes distempers and antitermite treatment to make the book to still more comprehensive and a useful unit for the students preparing for the examination in the subject

this book details nanofinishing techniques employed for finishing of industrial applications in a comprehensive manner it provides an introduction into nanofinishing requirements and basic nanofinishing techniques and their variants and details the latest developments research and innovation and advancements it includes topics ranging from working principles material removal mechanisms force analysis and mathematics involved in industry specific applications salient features comparative study and automation and optimization in nanofinishing technologies this book explains cutting edge nanofinishing technologies comprehensively discusses numerical explanations for better selection of process parameters and their modelling and optimization provides application oriented aspects of nanofinishing processes explains processes considering industry 4 0 capabilities and green manufacturing focuses on applications with good relevance to industry and coverage of case studies this book is aimed at graduate students and researchers in manufacturing and process engineering and the die and mould industries

the present book on elements of mechanical engineering is meant for the engineering students of all branches at their first year level it covers the new syllabus of panjab technical university jalandhar however it shall be useful to students of other universities also the book covers the basic principles of thermodynamics zeroth law of thermodynamics and the concept of temperature in the first chapter

we take an opportunity to present material science to the students of a m i e i diploma stream in particular and other engineering students in general he object of this book is to present the subject matter in a most concise compact to the point and lucis manner while preparing the book we have constantly kept in mind the requirments of a m i e i students regarding the latest trend of their examination to make it really useful for the a m i e i students the solutions of their complete examination has been written in an easy style with full detail and illustrations

the present edition includes technical data of new indian cars and trucks a chapter air conditioning of automobiles also has been added some new topics such as rotary distributior fuel injection pump glow plugs metric size tyres etc have been incorporated theglossary of technical terms has been expanded some questions have been modified keeping in view new models of cars trucks buses etc at the end a survey report has been given to proviede infromation about the modern trends in indian automobile manufacturing

the book provides an overview of prospective material simulants for hard tissues such as knee joints hip joint and bones and soft tissues such as skin muscles and functional organs these materials can repair replace the functionality or mimic the mechanical structural and biological properties of the parent tissue this book discusses hard and soft human tissue simulating biomaterials under a single umbrella covering a broad area of design and development of biomaterials implants and multi functional materials along with their characterization the progress in emerging biomaterials has increased manifold in the recent decades with the unprecedented focus on healthcare technologies this book is dedicated to ground breaking research in biomaterials and highlights the current trends and future roadmap of different materials for simulation of hard and soft tissues authored by prominent researchers around the globe the chapters of this book emphasize recent advances in biomedical material simulation this book brings together novel contributions to different aspects of hard and soft human tissue based biomaterials including recent advances and emerging developments in designing and developing simulants for tissue replacement alternatives this book is anticipated to serve as a key reference textbook for research in tissue engineering biomedical engineering biomaterials biomechanics and implant medical device development with contributed chapters solicited in the areas of soft materials such as elastomers hydrogels etc for various applications auxetic metamaterials additive manufacturing of bio implants artificial tissues and organs development of biomimetic materials medical implants and biomedical device design bioinspired and bio tribological materials advances in materials science for biomaterial applications biomechanical characterization of hard and soft human tissues bioprinting and nano biomaterials

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this treatise on engineering materials and metallurgy contains comprehensive treatment of the matter in simple lucid and direct language and envelopes a large number of figures which reinforce the text in the most efficient and effective way the book comprise five chapters excluding basic concepts in all and fully and exhaustively covers the syllabus in the above mentioned subject of 4th semester mechnical production automobile engineering and 2nd semester mechnical disciplines of anna university

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