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the present book is based on the research papers presented in the international conference on emerging trends in science engineering and technology 2012 held at tiruchirapalli india the papers presented bridges the gap between science engineering and technology this book covers a variety of topics including mechanical production aeronautical material science energy civil and environmental energy scientific management etc the prime objective of the book is to fully integrate the scientific contributions from academicians industrialists and research scholars

this book on the strength of materials deals with the basic principles of the subject all topics have been introduced in a simple manner the book has been written mainly in the m k s system of units the book has been prepared to suit the requirements of students preparing for a m i e degree and diploma examinations in engineering the chapters shear forces and bending moments

stresses in beams masonry dams and retaining walls fixed and continuous beams and columns and struts have been enlarged problems have been taken from a m i e and various university examinations this edition contains hundreds of fully solved problems besides many problems set for exercise at the end of each chapter

fundamentals of mechanical engineering fme is a well regarded reference for the subject among both instructors and engineering students because engineering is such an important field many professionals may consider this book to be a must have mechanical engineering is becoming a vital discipline in today's industrial world as a mechanical engineer being informed in this field is quite beneficial the book is a complete guide for mechanical students to progressively build confidence in the subject by attentively following it the entire spectrum of mechanical engineering is covered in this book this book presents both current and cutting edge methods in this sector additionally it will offer intriguing research subjects the goal of this book is to help readers grasp the complex ideas of mechanical engineering as much as possible via the use of case studies and examples it seeks to further the development of this field and act as a resource manual for both specialists and students

what is superalloy a superalloy or high performance alloy is an alloy with the ability to operate at a high fraction of its melting point several key characteristics of a superalloy are excellent mechanical strength resistance to thermal creep deformation good surface stability and resistance to corrosion or oxidation how you will benefit i insights and validations about the following topics chapter 1 superalloy chapter 2 oxide dispersion strengthened alloy chapter 3 titanium aluminide chapter 4 alloy chapter 5 strength of materials chapter 6 creep deformation chapter 7 corrosion chapter 8 redox ii answering the public top questions about superalloy iii real world examples for the usage of superalloy in many fields iv 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of superalloy technologies who this book is for professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of superalloy

this book contains two parts the first part deals with some aspects of irrigation encompassing farm irrigation systems landscape gardening energy assessment for drip irrigation and micro sprinklers the second part is on water resources planning and management it discusses water crisis challenges in river health management water supply systems salt water intrusion lake management water supply demand assessment integrated water resources management among other topics the book will be of interest to researchers and practitioners in the field of water resources hydrology environmental resources agricultural engineering watershed management earth sciences as well as those engaged in natural resources planning and management graduate students and those wishing to conduct further research in water and environment and their development and management may find the book to be of value

designed for the undergraduate students of civil engineering this textbook covers the theoretical aspects of soil mechanics and foundation engineering in a single volume the text is organized in two parts part i soil mechanics and part ii foundation engineering part i includes the basic properties and strength of soil vertical and lateral pressures discussion on earthen dam sheet piles and stability analysis for hill slope in connection with hill road construction part ii discusses shallow and deep foundations approaches of analysis of machine foundation and various methods of determining the bearing capacity of soil a separate chapter is devoted to on site investigation besides the undergraduate students this compendium will also be useful for students appearing for various competitive examinations such as gate ies and ias consulting engineers in geotechnical engineering may also use this book as a reference key features includes numerical problems with solutions in connection with construction of dams and highways in hilly region figures and explanations to facilitate professionals and designers of machine foundation to solve the complex problem of stability analysis objective type questions to aid in upsc examinations

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