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the theory of machines is an important subject to mechanical engineering students of both bachelor s and diploma level one has to understand the basics of kinematics and dynamics of machines before designing and manufacturing any component the subject material is presented in such a way that an average student can easily understand the concepts the graphical methods of analysis are given preference over analytical wherever possible though they lack in accuracy but can be performed quickly particular care has been taken to draw diagrams to scale correctly the results are compared with analytical ones wherever possible common doubts that the students have while preparing for the examinations or new faculty in the classrooms have been kept in mind the same examples are being explained wherever different methods are there instead of giving different examples the effect of the different parameters on the end result also is shown in the same problem for example in cams and governors etc in the exercises at the end of each chapter questions from the question papers of various universities are given under three categories short answer questions problems multiple choice questions some of the questions may be seen repeated one should note that they are being given repeatedly and are important for examination purpose

the favourable and warm reception which the previous editions and reprints of this popular book has enjoyed all over india and abroad has been a matter of great satisfaction for me

this book presents a thorough and comprehensive treatment of both the basic as well as the more advanced concepts in fluid mechanics the entire range of topics comprising fluid mechanics has been systematically organised and the various concepts are clearly explained with the help of several solved examples apart from the fundamental concepts the book also explains fluid dynamics flow measurement turbulent and open channel flows and dimensional and model analysis boundary layer flows and compressible fluid flows have been suitably highlighted turbines pumps and other hydraulic systems including circuits valves motors and ram have also been explained the book provides 225 fully worked out examples and more than 1600 questions including numerical problems and objective questions the book would serve as an exhaustive text for both undergraduate and post graduate students of mechanical civil and chemical engineering amie and competitive examination candidates as well as practising engineers would also find this book very useful

strength of materials mechanics of solids in si units is an all inclusive text for students as it takes a detailed look at all concepts of the subject distributed evenly in 35 chapters important focusses are laid on stresses strains inertia force beams joints and shells amongst others each chapter contains numerous solved examples supported by exercises and chapter end questions which aid to the understanding of the concepts explained a book which has seen foreseen and

incorporated changes in the subject for close to 50 years it continues to be one of the most sought after texts by the students for all aspects of the subject

i feel elevated in presenting the new edition of this standard treatise the favourable reception which the previous edition and reprints of this book have enjoyed is a matter of great satisfaction for me i wish to express my sincere thanks to numerous professors and students for their valuable suggestions and recommending the patronise this standard treatise in the future also

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 the object of this book is to present the subject matter in a most concise compact to the point and lucid manner while preparing the book we have constantly kept in mind the requirements 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

while writing the book we have continuously kept in mind the examination requirements of the students preparing for u p s c engg services and a m i e i examinations in order to make this volume more useful for them complete solutions of their examination papers up to 1975 have also been included every care has been taken to make this treatise as self explanatory as possible the subject matter has been amply illustrated by incorporating a good number of solved unsolved and well graded examples of almost every variety

two new chapters on general thermodynamic relations and variable specific heat have been added the mistake which had crept in have been eliminated we wish to express our sincere thanks to numerous professors and students both at home and abroad for sending their valuable suggestions and also for recommending the book to their students and friends

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