

Thermal Engineering Khurmi Gupta

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This textbook presents a modern approach for undergraduate (and graduate) Engineering students. Starting with Generators, it continues with Thermodynamics, Power Stations, Transportation, etc. While the material has been made easy-to-understand, there is emphasis on depth-of-knowledge and engineering principles. The chapter breakdown is as follows: 1. Forms and Sources of Energy 2. AC Generator 3. AC Generators in Parallel 4. DC Generator 5. Hydroelectric Power 6. Thermodynamic Processes 7. Carnot Cycle and Second Law of Thermodynamics 8. Reciprocating Engines 9. Gas Turbines 10. Steam Turbines 11. Solar Energy 12. Wind Turbines 13. Battery Technology 14. Electric and Hydroelectric Vehicles 15. Hydrocarbon Exploration 16. Saving Energy 17. Saving the Environment
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.

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A Textbook of workshop Technology(Manufacturing Processes)to the students of degree and diploma of all the Indian and foreign universities.The object of this book is to present the subject matter in a most concise,compact,to the point and lucid manner.While writing the book,we have constantly kept in mind the various requirements of the students.No effort has been spared to enrich the book with simple language and self-explanatory diagrams.Every care has been taken not to make the book voluminous,as the students have also to face other subjects of equal importance.

????:Numerical heat transfer and fluid flow

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 Distributor Fuel Injection Pump,Glow Plugs,Metric Size Tyres,etc.,have been incorporated.The glossary 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 provide information about the modern trends in Indian automobile manufacturing.

It is a long way from the first edition in 1976 to the present sixth edition in 1995.This edition is dedicated to the memory of Prof.S.P.Luthra(Once Head,Applied Mechanics Director,IIT Delhi)who wrote the foreword to its first edition.So many faculty members and students from different parts of the country and from abroad have accepted the text and contributed to its development.The book has been improved and updated with

every edition.

The present multicolor edition has been thoroughly revised and brought up-to-date. Multicolor pictures have been added to enhance the content value and to give the students an idea of what he will be dealing in reality, and to bridge the gap between theory and practice. This book has already been included in the 'suggested reading' for the A.M.I.E. (India) examinations.

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The Book Tries To Make The Reader Understand The Food Processing Operations Through A Comprehensive Numerical Problem.Understanding Of The Operations Becomes Deeper When The Reader Solves The Exercise Problems Given Under Each Of The Operations. Answer To Most Of The Numerical Problems Have Been Provided In The Book. The Proposed Book Is Unique As It Includes (I) Comprehensive Numerical Problem Based On Actual Data Taken During Food Processing Operations (Ii) Mathematical Modelling Of The Processing Operations (Iii) Solutions Of The Numerical Problem Based On Mathematical Models Developed (Iv) Exercise Problems

And (V) Inclusion Of Matlab Program In The Book. The Program Will Help The Reader To Find Out The Value Of The Responses As Affected By Varying The Independent Variables To Different Levels. Most Of The Materials Have been Class Tested Through The Teaching Of The Subjects. E.G., Food Processing Operations, Transfer Processes In Food Materials And Food Process Modelling And Evaluation. Content Highlights : - Part-I : Mechanical Operations : Size Reduction And Particle Size Analysis # High Pressure Homogenization. # Flexible Packaging And Shelf Life Prediction # Modified Atmosphere Packaging And Storage. # Single Screw Extrusion. # Separation Of Liquids In Disk Type Centrifugal Separator. # Separation And Conveying On Oscillating Tray Surface. # Solid Mixings Part-II : Thermal Operations : Comparing Saturated And Flue Gas As Heat Transfer Media. # Liquid Heating In Plate Heat Exchanger. # Liquid Heating In Helical Tube Heat Exchanger. # Air Heating In Extended Surface Heat Exchanger. # In-Bottle Sterilization. # Fluid Bed Freezing. # Concentration In Rising Film Evaporator. # Concentration In Falling Film Multistage Mechanical Vapour Recompression Evaporator. # Concentration In Scraped Surface Evaporator. # Osmo-Concentration In Fruit Solid. # Differential And Flash Distillation. # Air-Recirculatory Tray Drying. # Vacuum Drying. # Spray Drying. # Freeze Drying. # Hot Air Puffing. Part-III : Experimentation And Optimization : Empirical Model Development # Sensory Evaluation Using Fuzzy Logic. # Index

The book has been thoroughly revised. Several new articles have been

added, specifically, in chapters on mortar, Concrete, Paint: Varnishes, Distempers and Antitermite treatment to make the book still more comprehensive and a useful unit for the students preparing for the examination in the subject.

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The Multicolor Edition Has Been thoroughly revised and brought up-to-date. Multicolor pictures have been added to enhance the content value and to give the students an idea of what he will be dealing in reality, and to bridge the gap between theory and Practice.

Two new chapters on general Thermodynamic Relations and Variable Specific Heat have been Added. The mistake which had crept in has 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.

For B.E./B.Tech. students of Anna and Other Technical Universities of India Foundation of Mechanical Engineering is solely written with the view to help B.E. 1 year students to master the difficult concepts. Needless to emphasise, this new book has been designed as a self learning capsule. With this aim in view, the material has been organised in a logical order and lots of solved problems and line diagrams have been incorporated to enable students to thoroughly master of the subject. It is believed that this book, solely for B.E. 1 year students of all branches of Engineering, will captivate the attention of senior students as well as teachers.

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This Book On Thermal Engineering (Printed In Two Colours) Has Been Written For The Students Preparing The Subject For B.E. Examinations Of Various Indian Universities, A.M.I.E. And Competitive Examinations (E.G., U.P.S.C., Gate Etc.). The Book Contains 29 Chapters In All, And Deals The Subject Matter Exhaustively.Salient Features: The Presentation Of The Subject Matter Is Very Systematic And The Language Of The Text Is Lucid, Direct And Easy To Understand. Each Chapter Of Book Is Saturated With Much Needed Text Supported By Neat And Self-Explanatory Diagrams To Make The Subject Self-Speaking To A Great Extent. A Large Number Of Solved Examples, Questions Selected From Various Universities, U.P.S.C., Gate Etc., Examination Question Papers, Properly Graded, Have Been Added In Various Chapters To Enable The Students To Attempt Different Types Of Questions In The Examination Without Any Difficulty. At The End Of Each Chapter Highlights, Objective Type Questions, Theoretical Questions And Unsolved Examples Have Been Added To Make The Book A Complete Unit In All Respects.

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.

The Favourable and warm reception, which the previous editions and reprints of this booklet have enjoyed at home and abroad, has been a matter of great satisfaction to me.

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