

Structural Analysis By Bhavikatti Vol

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ADVANCED REINFORCED CONCRETE DESIGN P. C. VARGHESE 2009-01-09

Intended as a companion volume to the author's Limit State Design of Reinforced Concrete (published by Prentice-Hall of India), the Second Edition of this comprehensive and systematically organized text builds on the strength of the first edition, continuing to provide a clear and masterly exposition of the fundamentals of the theory of concrete design. The text meets the twin objective of catering to the needs of the postgraduate students of Civil Engineering and the needs of the practising civil engineers as it focuses also on the practices followed by the industry. This text, along with Limit State Design, covers the entire design practice of revised Code IS456 (2000). In addition, it analyzes the procedures specified in many other BIS codes such as those on winds, earthquakes, and ductile detailing. What's New to This Edition Chapter 18 on Earthquake Forces and Structural Response of framed buildings has been completely revised and updated so as to conform to the latest I.S. Codes 1893 (2002) entitled Criteria for Earthquake Resistant Design of Structures (Part I - Fifth Revision). Chapters 19 and 21 which too deal with earthquake design have been revised. A Summary of elementary design of reinforced concrete members is added as Appendix. Valuable tables and charts are presented to help students and practising designers to arrive at a speedy estimate of the steel requirements in slabs, beams, columns and footings of ordinary buildings.

Structural Analysis-II, 5th Edition Bhavikatti S.S. Structural analysis, or the 'theory of structures', is an important subject for civil engineering students who are required to analyse and design structures. It is a vast field and is largely taught at the

undergraduate level. A few topics, such as matrix method and plastic analysis, are also taught at the postgraduate level and in structural engineering electives. The entire course has been covered in two volumes: Structural Analysis-I and Structural Analysis-II. Structural Analysis-II not only deals with the in-depth analysis of indeterminate structures but also special topics, such as curved beams and unsymmetrical bending. The book provides an introduction to advanced methods of analysis, namely, matrix method and plastic analysis.

Structural Analysis-II, 4th Edition S.S. Bhavikatti Structural analysis, or the 'theory of structures', is an important subject for civil engineering students who are required to analyse and design structures. It is a vast field and is largely taught at the undergraduate level. A few topics like matrix method and plastic analysis are also taught at the postgraduate level and in Structural Engineering electives. The entire course has been covered in two volumes—Structural Analysis-I and II. Structural Analysis-II deals in depth with the analysis of indeterminate structures, and also special topics like curved beams and unsymmetrical bending. It provides an introduction to advanced methods of analysis, namely, matrix method and plastic analysis. SALIENT FEATURES □ Systematic explanation of concepts and underlying theory in each chapter □ Numerous solved problems presented methodically □ University examination questions solved in many chapters □ A set of exercises to test the student's ability in solving them correctly NEW IN THE FOURTH EDITION □ Thoroughly reworked computations □ Objective type questions and review questions □ A revamped summary for each chapter □ Redrawing of some diagrams

Matrix Analysis Framed Structures William Weaver 2012-12-06 Matrix analysis of structures is a vital subject to every structural analyst, whether working in aero-astro, civil, or mechanical engineering. It provides a comprehensive approach to the analysis of a wide variety of structural types, and therefore offers a major advantage over traditional methods which often differ for each type of structure. The matrix approach also provides an efficient means of describing various steps in the analysis and is easily programmed for digital computers. Use of matrices is natural when performing calculations with a digital computer, because matrices permit large groups of numbers to be manipulated in a simple and effective manner. This book, now in its third edition, was written for both college students and engineers in industry. It serves as a textbook for courses at either the senior or first-year graduate level, and it also provides a permanent reference for practicing engineers. The book explains both the theory and the practical implementation of matrix methods of structural analysis. Emphasis is placed on developing a physical understanding of the theory and the ability to

use computer programs for performing structural calculations.

Structural Analysis and Design of Process Equipment Maan H. Jawad
2018-06-22 Still the only book offering comprehensive coverage of the analysis and design of both API equipment and ASME pressure vessels This edition of the classic guide to the analysis and design of process equipment has been thoroughly updated to reflect current practices as well as the latest ASME Codes and API standards. In addition to covering the code requirements governing the design of process equipment, the book supplies structural, mechanical, and chemical engineers with expert guidance to the analysis and design of storage tanks, pressure vessels, boilers, heat exchangers, and related process equipment and its associated external and internal components. The use of process equipment, such as storage tanks, pressure vessels, and heat exchangers has expanded considerably over the last few decades in both the petroleum and chemical industries. The extremely high pressures and temperatures involved with the processes for which the equipment is designed makes it potentially very dangerous to property and life if the equipment is not designed and manufactured to an exacting standard. Accordingly, codes and standards such as the ASME and API were written to assure safety. Still the only guide covering the design of both API equipment and ASME pressure vessels, Structural Analysis and Design of Process Equipment, 3rd Edition: Covers the design of rectangular vessels with various side thicknesses and updated equations for the design of heat exchangers Now includes numerical vibration analysis needed for earthquake evaluation Relates the requirements of the ASME codes to international standards Describes, in detail, the background and assumptions made in deriving many design equations underpinning the ASME and API standards Includes methods for designing components that are not covered in either the API or ASME, including ring girders, leg supports, and internal components Contains procedures for calculating thermal stresses and discontinuity analysis of various components Structural Analysis and Design of Process Equipment, 3rd Edition is an indispensable tool-of-the-trade for mechanical engineers and chemical engineers working in the petroleum and chemical industries, manufacturing, as well as plant engineers in need of a reference for process equipment in power plants, petrochemical facilities, and nuclear facilities.

Structural Analysis-I, 5th Edition Bhavikatti S.S. Structural Analysis, or the 'Theory of Structures', is an important subject for civil engineering students who are required to analyze and design structures. It is a vast field and is largely taught at the undergraduate level. A few topics like Matrix Method and Plastic Analysis are also taught at the postgraduate level and in structural engineering electives. The entire course has been covered in two volumes - Structural Analysis I and II. Structural Analysis I deals

with the basics of structural analysis, measurements of deflection, various types of deflections, loads and influence lines, etc.

Matrix Methods of Structural Analysis Praveen Nagarajan 2018-09-03
This book deals with matrix methods of structural analysis for linearly elastic framed structures. It starts with background of matrix analysis of structures followed by procedure to develop force-displacement relation for a given structure using flexibility and stiffness coefficients. The remaining text deals with the analysis of framed structures using flexibility, stiffness and direct stiffness methods. Simple programs using MATLAB for the analysis of structures are included in the appendix. Key Features Explores matrix methods of structural analysis for linearly elastic framed structures Introduces key concepts in the development of stiffness and flexibility matrices Discusses concepts like action and redundant coordinates (in flexibility method) and active and restrained coordinates (in stiffness method) Helps reader understand the background behind the structural analysis programs Contains solved examples and MATLAB codes

Fundamental Structural Analysis W. SPENCER 2013-11-09 Significant changes have occurred in the approach to structural analysis over the last twenty years. These changes have been brought about by a more general understanding of the nature of the problem and the development of the digital computer. Almost all structural engineering offices throughout the world would now have access to some form of digital computer, ranging from hand-held programmable calculators through to the largest machines available. Powerful microcomputers are also widely available and many engineers and students have personal computers as a general aid to their work. Problems in structural analysis have now been formulated in such a way that the solution is available through the use of the computer, largely by what is known as matrix methods of structural analysis. It is interesting to note that such methods do not put forward new theories in structural analysis, rather they are a restatement of classical theory in a manner that can be directly related to the computer. This book begins with the premise that most structural analysis will be done on a computer. This is not to say that a fundamental understanding of structural behaviour is not presented or that only computer-based techniques are given. Indeed, the reverse is true. Understanding structural behaviour is an underlying theme and many solution techniques suitable for hand computation, such as moment distribution, are retained. The most widely used method of computer-based structural analysis is the matrix stiffness method.

Structural Analysis Vol.I R. Vaidyanathan 2007-05

Engineering Mechanics S. S. Bhavikatti 1994 This Is A Comprehensive Book Meeting Complete Requirements Of Engineering Mechanics Course Of Undergraduate Syllabus. Emphasis Has Been Laid On Drawing Correct

Free Body Diagrams And Then Applying Laws Of Mechanics. Standard Notations Are Used Throughout And Important Points Are Stressed. All Problems Are Solved Systematically, So That The Correct Method Of Answering Is Illustrated Clearly. Care Has Been Taken To See That Students Learn The Methods Which Help Them Not Only In This Course, But Also In The Connected Courses Of Higher Classes. The Dynamics Part Is Split In To Sufficient Number Of Chapters To Clearly Illustrate Linear Motion To General Plane Motion. A Chapter On Shear Force And Bending Moment Diagrams Is Added At The End To Coyer The Syllabi Of Various Universities. All These Feature Make This Book A Self-Sufficient And A Good Text Book.

Analysis of Structures Joe G. Easley 2011-08-24 Analysis of Structures offers an original way of introducing engineering students to the subject of stress and deformation analysis of solid objects, and helps them become more familiar with how numerical methods such as the finite element method are used in industry. Easley and Waas secure for the reader a thorough understanding of the basic numerical skills and insight into interpreting the results these methods can generate. Throughout the text, they include analytical development alongside the computational equivalent, providing the student with the understanding that is necessary to interpret and use the solutions that are obtained using software based on the finite element method. They then extend these methods to the analysis of solid and structural components that are used in modern aerospace, mechanical and civil engineering applications. Analysis of Structures is accompanied by a book companion website www.wiley.com/go/waas housing exercises and examples that use modern software which generates color contour plots of deformation and internal stress. It offers invaluable guidance and understanding to senior level and graduate students studying courses in stress and deformation analysis as part of aerospace, mechanical and civil engineering degrees as well as to practicing engineers who want to re-train or re-engineer their set of analysis tools for contemporary stress and deformation analysis of solids and structures. Provides a fresh, practical perspective to the teaching of structural analysis using numerical methods for obtaining answers to real engineering applications Proposes a new way of introducing students to the subject of stress and deformation analysis of solid objects that are used in a wide variety of contemporary engineering applications Casts axial, torsional and bending deformations of thin walled objects in a framework that is closely amenable to the methods by which modern stress analysis software operates.

Surveying and Levelling: Volume I S. S. Bhavikatti 2013-12-30 This book is meant for the first course on Surveying and Levelling of most of the universities. It covers all basic methods of surveying and levelling, applications of surveying and levelling, calculation of

areas and volumes of earth work involved in the field work. Minor instruments used in the field are also explained. The author has taken care to use simple and lucid language and to explain the subject with neat sketches. A number of problems are solved to make the subject clear. Diploma and degree students of Civil Engineering, Architecture and Mining will find this book useful

Mechanics of Structures (WBSCTE) S.S. Bhavikatti For students of civil engineering, the basic course on strength of materials is not enough to start their engineering career. They need an advanced course like Mechanics of Structure to understand strength and stability of several components of civil engineering structures. Hence, Mechanics of Structure is taught to all polytechnic students of civil engineering. This book follows the West Bengal Polytechnic syllabus for civil engineering branch. It is written in SI units. Notations used are as per Indian standard codes. Apart from West Bengal Polytechnic students of civil engineering branch, it is hoped that the students of other states with similar syllabus may also find this book useful. KEY FEATURES • 100 per cent coverage of new syllabus • Emphasis on practice of numericals for guaranteed success in exams • Lucidity and simplicity maintained throughout • Nationally acclaimed author of over 40 books

Basic Civil Engineering S. S. Bhavikatti 2019

THEORY OF ELASTICITY AND PLASTICITY H. JANE HELENA 2017-07-01 Theory of Elasticity and Plasticity is designed as a textbook for both undergraduate and postgraduate students of engineering in civil, mechanical and aeronautical disciplines. This book has been written with the objective of bringing the concepts of elasticity and plasticity to the students in a simplified and comprehensive manner. The basic concepts, definitions, theory as well as practical applications are discussed in a clear, logical and concise manner for better understanding. Starting with, general relationships between stress, strain and deformations, the book deals with specific problems on plane stress, plane strain and torsion in non-circular sections. Advanced topics such as membrane analogy, beams on elastic foundations and plastic analysis of pressure vessels are also discussed elaborately. For better comprehension, the text is well supported with: □ Large number of worked-out examples in each chapter. □ Well-labelled illustrations. □ Numerous Review Questions that reinforce the understanding of the subject. As all the concepts are covered extensively with a blend of theory and practice, this book will be a useful resource to the students.

Advance R.C.C. Design (R.C.C. Volume-Ii) S. S. Bhavikatti 2008

Practical Civil Engineering P.K. Jayasree 2021-05-03 The book provides primary information about civil engineering to both a civil and non-civil engineering audience in areas such as construction management, estate management, and building. Basic civil engineering

topics like surveying, building materials, construction technology and management, concrete technology, steel structures, soil mechanics and foundations, water resources, transportation and environment engineering are explained in detail. Codal provisions of US, UK and India are included to cater to a global audience. Insights into techniques like modern surveying equipment and technologies, sustainable construction materials, and modern construction materials are also included. Key features:

- Provides a concise presentation of theory and practice for all technical in civil engineering.
- Contains detailed theory with lucid illustrations.
- Focuses on the management aspects of a civil engineer's job.
- Addresses contemporary issues such as permitting, globalization, sustainability, and emerging technologies.
- Includes codal provisions of US, UK and India.

The book is aimed at professionals and senior undergraduate students in civil engineering, non-specialist civil engineering audience

Design Of Steel Structures (By Limit State Method As Per Is: 800 2007) S.S. Bhavikatti 2009 So far working stress method was used for the design of steel structures. Nowadays whole world is going for the limit state method which is more rational. Indian national code IS:800 for the design of steel structures was revised in the year 2007 incorporating limit state method. This book is aimed at training the students in using IS: 800 2007 for designing steel structures by limit state method. The author has explained the provisions of code in simple language and illustrated the design procedure with a large number of problems. It is hoped that all universities will soon adopt design of steel structures as per IS: 2007 and this book will serve as a good textbook. A sincere effort has been made to present design procedure using simple language, neat sketches and solved problems.

Civil Engineering Objective Type Questions S. S. Bhavikatti 2015-06-30 Covers all the major topics in civil engineering. Each topic is presented briefly followed by an exhaustive set of objective questions. Coverage ranges from the basic to the advanced. The text includes 3000+ objective type questions; brief descriptions of important theorems; derivations of important functions, relationships and equations; and diagrams and tables to illustrate important concepts.

Finite Element Analysis S. S. Bhavikatti 2005 With The Authors Experience Of Teaching The Courses On Finite Element Analysis To Undergraduate And Postgraduate Students For Several Years, The Author Felt Need For Writing This Book. The Concept Of Finite Element Analysis, Finding Properties Of Various Elements And Assembling Stiffness Equation Is Developed Systematically By Splitting The Subject Into Various Chapters. The Method Is Made Clear By Solving Many Problems By Hand Calculations. The Application Of Finite Element Method To Plates, Shells And Nonlinear Analysis Is Presented. After

Listing Some Of The Commercially Available Finite Element Analysis Packages, The Structure Of A Finite Element Program And The Desired Features Of Commercial Packages Are Discussed.

Structural Analysis 2 Salah Khalfallah 2018-10-08 This book enables the student to master the methods of analysis of isostatic and hyperstatic structures. To show the performance of the methods of analysis of the hyperstatic structures, some beams, gantries and reticular structures are selected and subjected to a comparative study by the different methods of analysis of the hyperstatic structures. This procedure provides an insight into the methods of analysis of the structures.

Theory of Structures RS Khurmi | N Khurmi 2000-11 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.

Soil Mechanics and Foundations B. C. Punmia 2005

Solid Mechanics (For Anna University) Bhavikatti S.S. Throughout the book, emphasis has been laid on developing the concepts, clarifying the units to be used in final equations and neatly presenting solutions for the numerical problems. The features of this 'one-stop' book will help the students to prepare themselves for taking up the design papers taught in higher classes. Key Features 1. Use of SI units 2. Summary of important concepts and formulae at the end of the book 3. Large number of solved problems, presented systematically 4. Large number of exercise problems 5. Simple and clear explanation of concepts 6. Generous use of diagrams for better understanding 7. Includes University question papers

Matrix Methods of Structural Analysis S. S. Bhavikatti 2011-08 Preliminary chapters are supposed to give suitable transition from structural analysis " classical methods studied by students in their compulsory courses. Then structure approach to matrix method is dealt so that the students get clear picture of matrix approach. Finally, stiffness matrix method " element approach is explained and illustrated so that before developing computer program student will understand what to instruct computer. Finally, a chapter on computer programming preliminaries which will help to develop the computer program and cautious the way of program develop by the others is included.

Basics of Structural Dynamics and Aseismic Design Damodarasamy & Kavitha 2009

Structural Analysis Alan Williams 2009-03-13 Structural Analysis: In Theory and Practice provides a comprehensive review of the classical methods of structural analysis and also the recent advances in

computer applications. The perfect guide for the Professional Engineer's exam, Williams covers principles of structural analysis to advanced concepts. Methods of analysis are presented in a concise and direct manner and the different methods of approach to a problem are illustrated by specific examples. In addition, the book includes the clear and concise approach to the subject and the focus on the most direct solution to a problem. Numerous worked examples are provided to consolidate the readers' understanding of the topics. *Structural Analysis: In Theory and Practice* is perfect for anyone who wishes to have handy reference filled with equations, calculations and modeling instructions as well as candidates studying for professional engineering registration examinations. It will also serve as a refresher course and reference manual for practicing engineers. Registered professional engineers and registered structural Numerous worked examples are provided to consolidate the readers' understanding of the topics Comprehensive coverage of the whole field of structural analysis Supplementary problems are given at the end of each chapter with answers provided at the end of the book Realistic situations encountered in practice and test the reader's ability to apply the concepts presented in the chapter Classical methods of structural analysis and also the recent advances in computer applications

Structural Analysis Vol II R. Vaidyanathan 2004

Structural Analysis 2 Salah Khalfallah 2018-10-08 This book enables the student to master the methods of analysis of isostatic and hyperstatic structures. To show the performance of the methods of analysis of the hyperstatic structures, some beams, gables and reticular structures are selected and subjected to a comparative study by the different methods of analysis of the hyperstatic structures. This procedure provides an insight into the methods of analysis of the structures.

Matrix Analysis of Structures Aslam Kassimali 2011-01-01 This book takes a fresh, student-oriented approach to teaching the material covered in the senior- and first-year graduate-level matrix structural analysis course. Unlike traditional texts for this course that are difficult to read, Kassimali takes special care to provide understandable and exceptionally clear explanations of concepts, step-by-step procedures for analysis, flowcharts, and interesting and modern examples, producing a technically and mathematically accurate presentation of the subject. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Engineering Mechanics S. S. Bhavikatti 2008

Structural Analysis-I, 4th Edition Bhavikatti S.S. Structural Analysis, or the 'Theory of Structures', is an important subject for civil engineering students who are required to analyze and design structures. It is a vast field and is largely taught at the

undergraduate level. A few topics like Matrix Method and Plastic Analysis are also taught at the postgraduate level and in structural engineering electives. The entire course has been covered in two volumes – Structural Analysis I and II. Structural Analysis I deals with the basics of structural analysis, measurements of deflection, various types of deflection, loads and influence lines, etc.

Structural Analysis S. P. Gupta 1981

Design of Steel Structures Elias G. Abu-Saba 2012-12-06 This book is intended for classroom teaching in architectural and civil engineering at the graduate and undergraduate levels. Although it has been developed from lecture notes given in structural steel design, it can be useful to practicing engineers. Many of the examples presented in this book are drawn from the field of design of structures. *Design of Steel Structures* can be used for one or two semesters of three hours each on the undergraduate level. For a two-semester curriculum, Chapters 1 through 8 can be used during the first semester. Heavy emphasis should be placed on Chapters 1 through 5, giving the student a brief exposure to the consideration of wind and earthquakes in the design of buildings. With the new federal requirements vis a vis wind and earthquake hazards, it is beneficial to the student to have some understanding of the underlying concepts in this field. In addition to the class lectures, the instructor should require the student to submit a term project that includes the complete structural design of a multi-story building using standard design procedures as specified by AISC Specifications. Thus, the use of the AISC Steel Construction Manual is a must in teaching this course. In the second semester, Chapters 9 through 13 should be covered. At the undergraduate level, Chapters 11 through 13 should be used on a limited basis, leaving the student more time to concentrate on composite construction and built-up girders.

TEXTBOOK OF FINITE ELEMENT ANALYSIS P. SESHU 2003-01-01 Designed for a one-semester course in Finite Element Method, this compact and well-organized text presents FEM as a tool to find approximate solutions to differential equations. This provides the student a better perspective on the technique and its wide range of applications. This approach reflects the current trend as the present-day applications range from structures to biomechanics to electromagnetics, unlike in conventional texts that view FEM primarily as an extension of matrix methods of structural analysis. After an introduction and a review of mathematical preliminaries, the book gives a detailed discussion on FEM as a technique for solving differential equations and variational formulation of FEM. This is followed by a lucid presentation of one-dimensional and two-dimensional finite elements and finite element formulation for dynamics. The book concludes with some case studies that focus on industrial problems and Appendices that include mini-project topics based on near-real-life problems. Postgraduate/Senior

undergraduate students of civil, mechanical and aeronautical engineering will find this text extremely useful; it will also appeal to the practising engineers and the teaching community.

Structural Analysis T. S. Thandavamoorthy 2011 The book provides a balanced coverage of concepts, basic definitions, and analytical techniques in the field of structural analysis. Starting with the coverage of basic topics such as loads and forms of structures, analysis and deflection of simple beams, and strain energy theorems, it discusses specific analysis methods for statically indeterminate structures, such as slope deflection, moment distribution, and Kani's methods. It also discusses certain advanced topics such as finite element method, plastic analysis of structures, and beams on elastic foundation. The text is user-friendly with a large number of worked-out examples and problems to encourage the reader towards independent problem solving. Undergraduate students of engineering and AMIE as well as practising professionals would find this book extremely useful for its exhaustive coverage of analysis techniques.

Design Of R.C.C. Structural Elements Vol. I S.S. Bhavikatti 2007 Indian Standard Code Of Practice Is-456 For The Design Of Main And Reinforced Concrete Was Revised In The Year 2000 To Incorporate Durability Criteria In The Design. As A Result Of It Many Codal Provisions Have Been Changed. Hence There Is Need To Train Engineering Students In Designing Reinforced Cement Concrete Structures As Per The Latest Code Of Is -456. With His Experience Of More Than 40 Years In Teaching, The Author Has Tried To Bring Out Students And Teachers Friendly Book On The Design Of Rcc Structures As Per Is-456: 2000. Rcc Design Is A Vast Subject. It Is Normally Taught In Two To Three Courses For Civil Engineering Students. This Book Is For The First Course In Rcc Design And Author Is Writing Another Book Advanced Rcc Design To Meet The Requirement Of Further Courses. This Book Deals With Design Philosophy And Design Of Various Structural Components Of Building. The Design Procedure Is Clearly Explained And Illustrated With Several Examples By Presenting The Solutions Step By Step In Details And With Neat Sketches Showing Reinforcement Details.

Structural Analysis Vol-1, 3E S. S. Bhavikatti 2009-11 Structural Analysis, Or The Theory Of Structures , Is An Important Subject For Civil Engineering Students Who Are Required To Analyze And Design Structures. It Is A Vast Field And Is Largely Taught At The Undergraduate Level. A Few Topics Like Matrix Method And Plastic Analysis Are Also Taught At The Postgraduate Level And In Structural Engineering Electives. The Entire Course Has Been Covered In Two Volumes.

Structural Analysis S. S. Bhavikatti 2005 Structural Analysis Or The 'Theory Of Structures ' Is An Important Subject For Civil Engineering Students Who Are Required To Analyze And Design Of Structures. It Is

A Vast Field And Is Largely Taught At The Undergraduate Level. A Few Topics Like Matrix Me

Strength of Materials (For Polytechnic Students) S.S. Bhavikatti
Strength of Materials is an important subject in engineering in which concept of load transfer in a structure is developed and method of finding internal forces in the members of the structure is taught. The subject is developed systematically, using good number of figures and lucid language. At the end of each chapter a set of problems are presented with answer so that the students can check their ability to solve problems. To enhance the ability of students to answer semester and examinations a set of descriptive type, fill in the blanks type, identifying true/ false type and multiple choice questions are also presented. **KEY FEATURES** • 100% coverage of new syllabus • Emphasis on practice of numerical for guaranteed success in exams • Lucidity and simplicity maintained throughout • Nationally acclaimed author of over 40 books