

Civil Engineering Drawing By Gurucharan

Primarily aimed to be an introductory text for the first course in surveying for civil, architecture and mining engineering students, this book, now in its second edition, is also suitable for various professional courses in surveying. Written in a simple and lucid language, this book at the outset, presents a thorough introduction to the subject. Different measurement errors with their types and nature are described along with measurement of horizontal distances and electronic distances measurements. This text covers in detail the topics in levelling, angles and directions and compass survey. The functions and uses of different instruments, such as theodolites, tacheometers and stadia rods are also covered in the text. Besides, the book elaborates different fields of surveying, such as plane table surveying, topographical surveying, construction surveying and underground surveys. Finally, the book includes a chapter on computer applications in surveying. **KEY FEATURES :** Includes about 400 figures to explain the fundamentals of surveying. Uses SI units throughout the book. Offers more than 170 fully-solved examples including the questions generated from premier universities. Provides a large number of problems and answers at the end of each chapter. Incorporates objective questions from AMIE exams and Indian Engineering Services exams.

Traces India's economic and social transformation into a free-market democracy, sharing the stories of its top players while weaving in the author's own life experiences as a former CEO for Procter & Gamble India. Reprint.

This new revised Third Edition of Airport Engineering, the basic classroom text for airport planning and design, shows professionals and students such key essentials as: * The structure and organization of air transport * Forecasting of air transport demand, using both traditional and new methods * Airport systems planning * Airport master planning * Air traffic control, lighting, and signing * Airport capacity and configuration * Passenger terminal * Air cargo facilities * Airport access * Designing for safety * Environmental impact of airports Reflecting the latest FAA, ICAO, and IATA recommendations and guidelines, and mirroring the changing climate of air travel in the 1990s, Airport Engineering, Third Edition is the single most informative guide to mastering the state of the art in airport engineering and design. And also by the same authors. Transportation Engineering Planning and Design Third Edition Paul H. Wright and Norman Ashford This book gives a balanced treatment of all modes of transportation--highways, railways and guideways, pipelines, airports, and ports and harbors. Transportation Engineering, Third Edition is divided into six parts: * Part 1--Introduces the transportation system of the United States * Part 2--Deals with the operation and control of the vehicles that use the physical transport systems * Part 3--Examines transportation planning * Part 4--Explains the design of land transportation facilities * Part 5--Describes the planning procedures and design criteria for air transportation facilities * Part 6--Covers water transportation facilities Complete with an excellent list of references at the end of each chapter for readers who waist to study a transportation problem in greater detail, Transportation Engineering, Third Edition is the definitive textbook for students taking undergraduate transportation courses in civil engineering and city planning. 1989 (0 471-83874-8) 784 pp.

An attempt has been made by the authors in this book to explain the general principles of the subject of Town Planning. The subject matter is expressed in a simple language and practical manner. The treatment is clear, methodical as well as interesting and easy to follow.

You've just read a chess beginners' manual and learned the rules of the game, some simple tactics, maybe a few opening moves. What's next for the ambitious player? Everyone's Second Chess Book, of course! Acclaimed chess teacher Dan Heisman equips the not-quite-novice with the practical tools and knowledge needed to get started in competitive play: how to develop board vision; what to do when you're way ahead in material; how to avoid common mistakes in thinking; when to "believe" your opponent; even how to act properly at the chessboard. The author uses examples from inexperienced players to provide a wealth of common-sense advice, topping it off with a collection of illustrative games and practice puzzles. In this new and enhanced edition of a classic work, National Master Heisman adds chapters identifying the most important areas for the novice to focus on to advance to intermediate level; then exploring the dangers of stopping too soon when analyzing a position; and highlighting the value of making chess study fun so that the student will feel motivated to do the work. Read Everyone's Second Chess Book and start climbing up the ladder of chess success!

Stone H Bricks * Clay Products and Refractories * Lime H Cement * Mortars H Concrete * Timber * Paint, Varnishes, White Wash, Distempers * Pig Iron * Cast Iron * Wrought Iron * Steel and Its Alloys * Non-Ferrous Metals * Alloys of Ferrous and Non-Ferrous metal * Glass * Plastics * Asphalt, Bitumen and Tar * Miscellaneous Materials * Properties of Building Materials * Introduction to Material Science of Metals.

Geotechnical Engineering: Principles and Practices, 2/e, is ideal for junior-level soil mechanics or introductory geotechnical engineering courses. This introductory geotechnical engineering textbook explores both the principles of soil mechanics and their application to engineering practice. It offers a rigorous, yet accessible and easy-to-read approach, as well as technical depth and an emphasis on understanding the physical basis for soil behavior. The second edition has been revised to include updated content and many new problems and exercises, as well as to reflect feedback from reviewers and the authors' own experiences. Indians wryly admit that 'India grows at night'. But that is only half the saying, the full expression is: 'India grows at night... when the government sleeps', suggesting that the nation may be rising despite the state. India's is a tale of private success and public failure. Prosperity is, indeed, spreading across the country even as governance failure pervades public life. But how could a nation become one of the world's fastest-growing economies when it's governed by a weak, ineffective state? And wouldn't it be wonderful if India also grew during the day—in other words, if public policy supported private enterprise? What India needs, Gurucharan Das says, is a strong liberal state. Such a state would have the authority to take quick, decisive action, it would have the rule of law to ensure those actions are legitimate and finally, it would be accountable to the people. But achieving this will not be easy, says Das, because India has historically had a weak state and a strong society. About the Author Gurucharan Das is a

well known author, commentator and public intellectual. He is the author of the much acclaimed *The Difficulty of Being Good*, and the international bestseller *India Unbound*, which has been translated into many languages and filmed by the BBC. His other works include the novel, *A Fine Family*, a book of essays, *The Elephant Paradigm*, and an anthology, *Three Plays*, consisting of *Larins Sahib*, *Mira* and *9 Jakhoo Hill*. Gurcharan Das writes a regular column for a number of Indian newspapers including the *Times of India* and occasional guest columns for *Newsweek*, *Wall Street Journal* and *Foreign Affairs*. Gurcharan Das graduated from Harvard University and was CEO of Procter and Gamble India before he took early retirement to become a full time writer. He lives in Delhi.

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.

The subject "Irrigation Engineering" has assumed importance since last 30 to 40 years. Continued increase in population, particular in developing countries, at a very fast rate has caused scarcity of food. The real answer to food problem, is increased production of food articles; which is possible only by artificial irrigation of fields. India has a very large potential for irrigation, because area and water resources both are abundantly available. Abundance of area for irrigation and availability of lot of water resources are probably the reasons that most of the early irrigation practices and theories were developed in India. There is lot of variations in rainfall in different regions of India. Some of the areas have very little rainfall insufficient to grow any crop. Other areas have sufficient rainfall but its distribution is not as required by the crops. Scanty rainfall and erratic distribution both necessitate artificial irrigation. The purpose of this book is to present the subject in most concise form. Simplicity of language is the main feature of the book. The book is completely in MKS units and covers the syllabus of all the Indian Universities, State Technical Boards, and A.M.I.E. (India) examinations. The book should be equally useful to practicing Engineers as reference book.

Examples of almost all the important irrigation works have been solved and then illustrated in neat drawing charts. Khosla's Charts, Lacey's and Garret diagrams all are in MKS units. Rajsons Publications Pvt. Ltd. Every effort was made to eliminate printing errors. I would appreciate if printing errors are brought to my notice and Suggestions to bring about improvements in the book are most welcome. I am thankful to all my friends who have rendered great help by their valuable suggestions. In last I am thankful to Shri R.K. Jain, Prop. Standard Book House, without whose efforts this venture would not have reached the readers.

Built Environment means human-made environment for Livelihood, Living, and Life, i.e. Livability of human beings with contentment. History throws light on the development of houses, buildings, villages, cities and mega cities along with many other amenities as per necessity and available technology. Future challenges related to the creation of built environment for human beings are now expected for the population of 8.6 billion in the year 2030, 9.2 billion in the year 2050 and 11.2 billion in the year 2100. These challenges include limited resources of land, water, air, food, jobs and shelters. Hence, we need Sustainable, Green, Smart villages and cities created by Urban Planners, Architects, Engineers and many other related consultants with the support of governing authorities. This revised edition of the book on Building Drawing, 6th Edition deals with the subject with an approach to build Sustainable, Green, and Smart Cities for Welfare of all. Highlights: # A new chapter on City Planning for the Future to motivate new architects and civil engineers to choose career in Urban Planning and Designing. # Upgraded chapters 1 and 2 to discuss sustainable development and designing of Smart Cities in detail. # A thorough discussion on the methods of preparing various types of drawings as per the Indian Standard specifications . # Latest case studies and quotations from well-known thinkers, architects and professionals to inspire learners to know more about the multidisciplinary subject, Built Environment . # Reading Exercises and Project Works to enhance practical skills of learners through subject and self-learning techniques Book is meant for Architectural and Civil Engineering Students, Practicing Architects and Consultants H Book covers the Most Modern Techniques of Planning Designing and Scheduling H Useful Plans for Various Types of Building are Given in Ample Number. CONTENTS Introduction * Town Planning * Introduction to Architecture * Principles of Architectural Composition * Building Bye-Laws * Site Selection * Orientation * Principles of Planning and Buildings * Sun and the Buildings * Design of Residential Buildings * Design of Educational Buildings * Hospitals and Dispensaries * Hotels * Shopping Centre and Banks * Industrial Buildings * Buildings for Recreation * Government Offices and Other Buildings * Buildings Services * Management of Construction Works * Network Analysis C.P.M. and PERT.

Introduction * History of Development of Roads * Highway Planning * Highway Economics and Finance * Road Alignment and Survey * Highway Geometrics * Highway Drainage * Hill Roads * Traffic Engineering * Road Arboriculture * Highway Machinery * Highway Sub-Grade Soils * Stone Aggregates * Aggregate Blending Procedures * Bituminous Materials * Bituminous Paving Mixes and Mix Design * Constructing the Road Formations * Design of Flexible Pavements * Design of Cement Concrete Roads * Low Cost Roads * Stabilized Roads * Construction of (WBM) Roads * Bituminous Roads * Cement Concrete Roads * Layout of Urban Roads, Pavings and Ribbon Development * Highway Failures and Maintenance.

The Book Irrigation And Water Resources Engineering Deals With The Fundamental And General Aspects Of Irrigation And Water Resources Engineering And Includes Recent Developments In Hydraulic Engineering Related To Irrigation And Water Resources Engineering. Significant Inclusions In The Book Are A Chapter On Management (Including Operation, Maintenance, And Evaluation) Of Canal Irrigation In India, Detailed Environmental Aspects For Water Resource Projects, A Note On Interlinking Of Rivers In India, And Design Problems Of Hydraulic Structures Such As Guide Bunds, Settling Basins Etc. The First Chapter Of The Book Introduces Irrigation And Deals With The Need, Development And Environmental Aspects Of Irrigation In India. The Second Chapter On Hydrology Deals With Different Aspects Of Surface Water Resource. Soil-Water Relationships Have Been Dealt With In Chapter 3. Aspects Related To Ground Water Resource Have Been Discussed In Chapter 4. Canal Irrigation And Its Management Aspects Form The Subject Matter Of Chapters 5 And 6. Behaviour Of Alluvial Channels And Design Of Stable Channels Have Been Included In Chapters 7 And 8, Respectively. Concepts Of Surface And Subsurface Flows, As Applicable To Hydraulic Structures, Have Been Introduced In Chapter 9. Different Types Of Canal Structures Have Been Discussed In Chapters 10, 11, And 13. Chapter 12 Has Been Devoted To Rivers And River Training Methods. After Introducing Planning Aspects Of Water Resource Projects In Chapter 14, Embankment Dams, Gravity Dams And Spillways Have Been Dealt With, Respectively, In Chapters 15, 16 And 17. The Students Would Find Solved Examples (Including Design Problems) In The Text, And Unsolved Exercises And The List Of References Given At The End Of Each Chapter Useful.

“Materials Of Construction-I” is intended to be used as a text book for First Semester Diploma in Civil Engineering and is designed for comprehensively covering all topics relevant the subject as per the Syllabus Prescribed by the Board of Technical Education, Karnataka. At the end of each chapter, Points to remember, Fill up the blanks & Descriptive type questions is given. To enhance the utility of book, Multiple Choice Questions are given towards the end of the book along with answers. This should benefit the students preparing for Common Entrance Test. It is hoped that this book will be immense use to teachers and students of Polytechnics. I wish to express my gratitude to MEI Polytechnic, Bangalore for providing me an opportunity to bring out this text book. I am grateful to Sri Nitin S.Shah, M/s Spana Book House (P) Ltd., Bangalore for publishing this book within a reasonable time. I am thankful to M/s Datalink, Bangalore for neatly typing the manuscript of this book. I also express my sincere thanks to Sri C.Chandrashekar, HOD (Civil) and colleagues for their encouragement. The readers are welcome to send their valuable comments and suggestions for further improvement of this book.

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.

This Book Provides A Systematic Account Of The Basic Principles Involved In Engineering Drawing. The Treatment Is Based On The First Angle Projection. Salient Features: * Nomography Explained In Detail. * 555 Self-Explanatory Solved University Problems. * Step-By-Step Procedures. * Side-By-Side Simplified Drawings. * Adopts B.I.S. And I.S.O. Standards. * 1200 Questions Included For Self Test. The Book Would Serve As An Excellent Text For B.E., B.Tech., B.Sc. (Ap. Science) Degree And Diploma Students Of Engineering. Amie Students Would Also Find It Extremely Useful.

This fourth edition of Plant Systematics is completely revised and updated. It incorporates the updated International Code of Nomenclature for Algae, Fungi and Plants (Shenzhen Code, 2018), the new version of PhyloCode (Beta version of PhyloCode 5, 2014), APweb version 14 (September, 2018), revised Angiosperm Phylogeny Group classification (APG IV, 2016), new Pteridophyte Phylogeny Group Classification (PPG I, 2016), besides the updates since the publication of third edition. The book is a blend of classical fundamental aspects and recent developments, especially in the field of molecular systematics, cladistics and computer identification. Special attention has been given to information on botanical nomenclature, identification, molecular systematics and phylogeny of angiosperms. The complicated concepts of phylogeny, taxometrics and cladistics have been explained with a view to providing a comparison between these diverse but interactive fields of study. An attempt has been made to build upon a common example when exploring different methods, especially in procedures of identification, taxometrics and cladistics. The major systems of classification are evaluated critically. Discussion on major families of Pteridophytes, Gymnosperms and Angiosperms, especially those of major phylogenetic interest, form a major portion of this edition. The ebook includes nearly 500 color photographs set out in 36 pages covering plants from different parts of the world. In addition, 305 black & white illustrations have been included to provide a better understanding of the plants covered in the book.

Master the core concepts and applications of foundation analysis and design with Das/Sivakugan's best-selling PRINCIPLES OF FOUNDATION ENGINEERING, 9th Edition. Written specifically for those studying undergraduate civil engineering, this invaluable resource by renowned authors in the field of geotechnical engineering provides an ideal balance of today's most current research and practical field applications. A wealth of worked-out examples and figures clearly illustrate the work of today's civil engineer, while timely information and insights help readers develop the critical skills needed to properly apply theories and analysis while evaluating soils and foundation design. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

In A Single Volume, This Book Presents A Comprehensive Account Of The Subject Matter For Construction Planning And Management. Each Chapter Is Preceded By Instructional Objectives In Order To Promote Well-Defined Study. References To Related Indian Standard Codes Of Practice Are Included. Numerous Questions And Solved Examples Along With Various Illustrations, Graphs And Tables Facilitate Clarity In Understanding The Subject An Immensely Useful Work For Students Of Civil Engineering In Polytechnics And Engineering Colleges.

Isometric Projection * Perspective Drawing * Masonry * Foundations, Roofs and Fire Places * Design of Buildings * Arches and Lintels * Cavity Walls, * Scaffolding and Shoring, * Stairs * Joinery * Wooden partition * Wooden Floors * Door and Windows * Trusses * Pitched Roof Covering * Graphical Solution of Trusses * Connections of Steel Structures * Plate Girder * H R.C.C. Structures * Sewers and Drains * Pipes and Pipe Joints * Sanitary Fittings * Septic Tank and Cesspool * Water Supply Structures * Swimming Pool * Irrigation Structures * Culverts and Bridges * Railway and Roadcross Sections * Machine Drawing * Principles of Planning and Designing a Building.

PART- 1 : Water Supply Engineering Introduction * Quantity of Water * Sources of Water * Pumps Intakes and Conveyance of Water * Quality of Water * Laying and Water maintenance of Pipe lines * Pipe Appurtenances * Distribution of Water * Storage and Distribution Reservoirs and Waste * Water Survey * Water Treatment Processes * Plain Sedimentation -Coagulation * Filtration * Disinfection * Miscellaneous Processes of Treatment * Water Supplies and Radio Activity * Special Problems of Rural Water Supply * Water Pollution Control * Financing and Management of Water Supply Schemes. PART- II : Sanitary Engineering Introduction and Definition * Collection and Conveyance of Sewage * Quality of Sanitary Sewage and Storm Water H Construction of Sewage H Design of Sewers H Sewer Appurtenances H Maintenance of Sewers H Sewage Pumping * Planning of Sewage System * Characteristics and Composition of Sewage * Sewage Disposal * Sewage Treatment * Preliminary Treatment of Sewage * Sedimentation * Chemical Precipitation * Trickling Filters * Activated Sludge Processes * Sewage Sludge Treatment and Disposal * Chlorination * Stabilization Ponds * Industrial Wastes Tank and Imhoff Tank * Sanitary Fittings * House Drainage * Rural Miscellaneous Topics.

Fundamentals of Structural Analysis third edition introduces engineering and architectural students to the basic techniques for analyzing the most common structural elements, including beams, trusses, frames, cables, and arches. Leet et al cover the classical methods of analysis for determinate and indeterminate structures, and provide an introduction to the matrix formulation on which computer analysis is based. Third edition users will find that the text's layout has improved to better illustrate example problems, superior coverage of loads is give in Chapter 2 and over 25% of the homework problems have been revised or are new to this edition.

This book deals with good ventilation, thermal comfort, and acoustic requirements when planning a building. As well as satisfying minimum standards and the regulations of local authorities, economics and future expansions are considered. The book discusses building drawings created through computer aided design. To understand the commands of AutoCAD and use them, the sequential procedure and steps involved while drawing plan, elevation and section are stored as screen captures and collection of these screen shots are placed in a CD which is enclosed with this book. The practising engineer will also find it as an excellent reference book.

This majestic novel by the author of India Unbound is the extraordinary chronicle, rich in passion and incident, of a Punjabi family that is uprooted from its settled existence in Lyallpur by the violence of Partition and forced to flee to India. Everything is lost in the transition, but when a son is born into the family, hopes revive of rebuilding the family's fortunes, the efforts towards which mirror those of India itself as it struggles to build itself anew.

?ABOUT THE BOOK: feel proud in issuing the Seventh Edition of the book "Building Construction and Materials". The subject " Building Construction and Materials" is a very vast and tedious subject of Civil Engineering. Author has tried to explain all the aspects of this subject in a very simple and lucid language. The Book is entirely in SI Units. The book covers the syllabi prescribed by all the Indian universities, State Technical Boards and A.M.I.E. (India) examinations. The book is also very useful for Engineers involved in construction industry. All the relevant I.S.I. Recommendations and other useful data have been incorporated in the book. Author has tried to explain all the aspects with the help of lot of neat drawings. It is hoped that the book will satisfy all the needs of the students and practising engineers in regard to this subject. In order to increase the usefulness of the book basic engineering materials have been added in this revised 17th edition. Basic engineering material like stone, bricks, lime, cement, timber and iron has been added in this edition. ?RECOMMENDATIONS: A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations In S.I Units For Degree, Diploma and A.I.M.E. (India) Students and Practising Civil Engineers. ?ABOUT THE AUTHOR: Dr. Gurucharan Singh Joint Director (Retd.) Directorate of Technical Education Rajasthan, Jodhpur ?BOOK DETAILS: ISBN : 978-81-89401-21-4 Pages: 933 + 26 Edition: 17th, Year-2019 Size(cms): L-23.7, B-15.8, H-3.7 ?For more Offers visit our Website: www.standardbookhouse.com

Introduction to Fluid Mechanics * Common Measurements and Equipment * Experiments : To Determine the Metacentric Height of a Ship Model* To Verify Bernoulli's Theorem* To Determine the Coefficient of Discharge of an Orifice Meter* To Determine the Value of C_v C_v and C_d of a Sharp-edged, Circular Discharging Free* To Determine the Coefficient of Discharge of a Cylindrical External Mouthpiece by the Variable Head Method* To Determine the Coefficient of Discharge of a V-notch* To Determine the Coefficient of Discharge of a Rectangular Notch* To Determine the Coefficient of Discharge of a Board-Crested Weir* To Determine the Coefficient of Discharge of a Venturiflume* To Determine the Coefficient of Discharge of a Standing-Wave Flume* To Study Transition from Laminar to Turbulent Flow and to Determine the Critical Reynolds Number* To Determine the Value of Darcy's Coefficient ' f ' for different Pipes* To Determine the form (Minor) Losses in a Pipe* To Determine the force exerted by a jet of Water on a Stationary Vane and to Verify the Impulse-Momentum Equation* To verify Stokes Law and to study the Variation of the Drag Coefficient C_D with Reynolds Number for a Sphere* To Obtain the Velocity Profile in the Boundary Layer Over a Fixed Plate, and to Determine δ δ^* and θ * To Determine the Coefficient of Discharge of a β and \bar{n} * To Determine the Elements of Hydraulic Jump in a Rectangular Channel * To Obtain the Performance Characteristics of a Pelton Wheel and to Determine the Specific Speed * To Obtain the Performance Characteristics of a Francis Turbine, and to Determine its Specific Speed * To Obtain the Performance Characteristics of a Centrifugal Pump, and to Determine its Specific Speed * Answer to Selected Questions * Appendix A. Physical Properties of Water* Appendix B. Physical Properties of Air at Atmospheric Pressure * Appendix C. Physical Properties of Common Liquids at 20° C * Appendix D. Some Useful Data.

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