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This book presents select peer-reviewed proceedings of the International Conference on Advances in Mechanical Engineering (ICAME 2020). The contents cover latest research in several areas such as advanced energy sources, automation, mechatronics and robotics, automobiles, biomedical engineering, CAD/CAM, CFD, advanced engineering materials, mechanical design, heat and mass transfer,

manufacturing and production processes, tribology and wear, surface engineering, ergonomics and human factors, artificial intelligence, and supply chain management. The book brings together advancements happening in the different domains of mechanical engineering, and hence, this will be useful for students and researchers working in mechanical engineering. Designed as a text for the undergraduate students of all branches of engineering, this compendium gives an opportunity to learn and apply the popular drafting software AutoCAD in designing projects. The textbook is organized in three comprehensive parts. Part I (AutoCAD) deals with the basic commands of AutoCAD, a popular drafting software used by engineers and architects. Part II (Projection Techniques) contains various projection techniques used in engineering for technical drawings. These techniques have been explained with a number of line diagrams to make them simple to the students. Part III (Descriptive Geometry), mainly deals with 3-D objects that require imagination. The accompanying CD contains the animations using creative multimedia and PowerPoint presentations for all chapters. In a nutshell, this textbook will help students maintain their cutting edge in the professional job market. **KEY FEATURES :** Explains fundamentals of imagination skill in generic and basic forms to crystallize concepts. Includes chapters on aspects of technical drawing and AutoCAD as a tool. Treats problems in the third angle as well as first angle methods of projection in line with the revised code of Indian Standard Code of Practice for General Drawing. The most teachable book on incompressible flow— now fully revised, updated, and expanded *Incompressible Flow, Fourth Edition* is the updated and revised edition of Ronald Panton's classic text. It continues a respected tradition of providing the most comprehensive coverage of the subject in an exceptionally clear, unified, and

Carefully paced introduction to advanced concepts in fluid mechanics. Beginning with basic principles, this Fourth Edition patiently develops the math and physics leading to major theories. Throughout, the book provides a unified presentation of physics, mathematics, and engineering applications, liberally supplemented with helpful exercises and example problems. Revised to reflect students' ready access to mathematical computer programs that have advanced features and are easy to use, *Incompressible Flow, Fourth Edition* includes: Several more exact solutions of the Navier-Stokes equations Classic-style Fortran programs for the Hiemenz flow, the Psi-Omega method for entrance flow, and the laminar boundary layer program, all revised into MATLAB A new discussion of the global vorticity boundary restriction A revised vorticity dynamics chapter with new examples, including the ring line vortex and the Fraenkel-Norbury vortex solutions A discussion of the different behaviors that occur in subsonic and supersonic steady flows Additional emphasis on composite asymptotic expansions *Incompressible Flow, Fourth Edition* is the ideal coursebook for classes in fluid dynamics offered in mechanical, aerospace, and chemical engineering programs. Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new

approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology. Market Basket Analysis (MBA) provides the ability to continually monitor the affinities of a business and can help an organization achieve a key competitive advantage. Time Variant data enables data warehouses to directly associate events in the past with the participants in each individual event. In the past however, the use of these powerful tools in tandem led to performance degradation and resulted in unactionable and even damaging information. *Data Warehouse Designs: Achieving ROI with Market Basket Analysis and Time Variance* presents an innovative, soup-to-nuts approach that successfully combines what was previously incompatible, without degradation, and uses the relational architecture already in place. Built around two main chapters, Market Basket Solution Definition and Time Variant Solution Definition, it provides a tangible how-to design that can be used to facilitate MBA within the context of a data warehouse. Presents a solution for creating home-grown MBA data marts Includes database design solutions in the context of Oracle, DB2, SQL Server, and Teradata relational database management systems (RDBMS) Explains how to extract, transform, and load data used in MBA and Time Variant solutions The book uses standard RDBMS platforms, proven database structures, standard SQL and hardware, and software and practices already accepted and used in the data warehousing community to fill the gaps left by most conceptual discussions of MBA. It employs a form and language intended for a data warehousing audience to explain the practicality of how data is delivered, stored, and viewed. Offering a comprehensive explanation of the applications that provide, store, and use MBA data, *Data Warehouse Designs* provides you with the language and concepts needed to require and receive information that is relevant and actionable. *Engineering Drawing* is a textbook designed for the students of all engineering disciplines to develop a spatial bent of mind to observe, visualize, and understand the structure of objects from different perspectives. This ability forms the central idea of design and

development of all engineering products. Beginning with the basics, such as BIS conventions, geometrical constructions, and scales, the book presents a detailed chapter on Visualization Concepts and Freehand Sketching, which lays the foundation to understand the subsequent chapters on orthographic projections, projection of points, lines, planes, and solids. These chapters ease the complexity of understanding further chapters such as intersection of solids, surfaces, and development of surfaces. The last few chapters discuss isometric projections, transformation of projections, perspective projections, and finally computer-aided drafting that briefs the reader about the utility of AutoCAD 2015 tools in drawing. The book provides a number of example problems, step-by-step procedure for solutions, numerous graded practice exercises, and multiple-choice questions. Engineering Graphics, in its 13th year, has been succinctly revised for the Engineering students of 1st year of Gujarat Technological University, Ahmedabad. Beginning with the units, dimensions and standard, this book discusses the measurement and measurement errors. Then, it goes on to discuss electronics equipment, measurements of low resistance and A.C. bridges. Moreover, the book deals with the cathode ray oscilloscopes. Further, it describes various instrument calibration. Finally, the book deals with recorders and plotters. Just a thousand years ago, India was dotted with universities across its length and breadth, where international students flocked to gain credentials in advanced education. This illustrated book describes how these multi-disciplinary centers of learning existed in several forms such as forest universities, brick-and-mortar universities and temple universities. It examines the funding for these citadels of learning and their graduation ceremonies. The process by which India's ancient systems of education helped to fuel a knowledge revolution around the world with its manuscripts, forming the basis for monographs and academic papers, is explained with references. The marauding incursions by Muslim invaders, which disrupted the idyllic world of university learning in India, followed by European colonization, which led to further erosion and degeneration of India's traditional

learning systems, have been taken up in some detail. Readers will get a snapshot view of India's education system down the ages from ancient to modern times. This book provides a detailed study of geometrical drawing through simple and well-explained worked-out examples. It is designed for first-year engineering students of all branches. The book is divided into seven modules. A topic is introduced in each chapter of a module with brief explanations and necessary pictorial views. Then it is discussed in detail through a number of worked-out examples, which are explained using step-by-step procedure and illustrating drawings. Module A covers the fundamentals of manual drafting, lettering, freehand sketching and dimensioning of views. Module B describes two-dimensional drawings like geometrical constructions, conics, miscellaneous curves and scales. Three-dimensional drawings, such as projections of points, lines, plane lamina, geometrical solids and sections of them are well explained in Module C. Module D deals with intersection of surfaces and their developments. Drawing of pictorial views is illustrated in Module E, which includes isometric projection, oblique projection and perspective projections. Module F covers the fundamentals of machine drawing. Finally, in Module G the book introduces computer-aided drafting (CAD) to make the readers familiar with the state-of-the-art techniques of drafting. Key Features : Follows the International Standard Organization (ISO) code of practice for drawing. Includes a large number of dimensioned illustrations, worked-out examples, and university questions and answers to explain the geometrical drawing process. Contains chapter-end exercises to help students develop their drawing skills. This work is based on the experience and notes of the authors while teaching mathematics courses to engineering students at the Indian Institute of Technology, New Delhi. It covers syllabi of two core courses in mathematics for engineering students. Modern Surveying is unimaginable without the use of electronic equipment and information technology. Surveying with conventional systems has been completely replaced with advanced automated systems. Total Station, Global Positioning System (GPS), Remote Sensing and Geographical Information System (GIS) have all

become an inextricable part of surveying. Advanced Surveying: Total Station, GIS and Remote Sensing provides a thorough working knowledge of these technologies. The Seventh Edition Of This Book Is Thoroughly Revised And Enlarged And Is Specifically Tailored To Meet The Revised Syllabus, Offered In The First Year Of B.E./B.Tech. Of All The Branches In Various Engineering Colleges Affiliated To Anna University, Tamil Nadu. Salient Features:- * It Is User-Friendly With Step-By-Step Procedures. * Each Solved Problem Is Graded And Is Followed By Similar Exercise Problem For Students To Practice Confidently And Grasp The Fundamental Principles Much Easily. * Additional Problems Are Also Added In Each Chapter. * An Excellent Guide For An Average Student Highlighting The Important Points, Notes, Rules, Hints, To Remember, Etc. * Illustrated With 800 Solved University Problems With Illustrations, It Is Examination Oriented. An Introduction to Mechanical Engineering is an essential text for all first-year undergraduate students as well as those studying for foundation degrees and HNDs. The text gives a thorough grounding in the following core engineering topics: thermodynamics, fluid mechanics, solid mechanics, dynamics, electricals and electronics, and materials science. The revised and updated version of the student-friendly, practical and example-driven book, Programming in C++, continues to give its readers a solid background and a learning platform to the fundamentals of C++. This comprehensive book, enriched with illustrations and a number of solved programs, will help the students to master this subject. This book represents a real milestone for low vision care because it is one of the first low vision books in the world, and the first from the UK, that doesn't just give lip service to multi-disciplinary collaboration- it has a multi-disciplinary authorship. Barbara Ryan, Research Associate, School of Optometry and Vision Sciences, Cardiff University, Cardiff, UK Low Vision Manual is a comprehensive guide and up-to-date reference source, written by clinical and research experts in the fields of disease detection and management; primary and secondary optometric care; low vision optics and prescribing; counselling and rehabilitation. All these areas are explored in this book in four key

sections: Section One: Definition of low vision and its epidemiology Section Two: The measurement of visual function of the visually impaired Section Three: The optics and practical tips on prescribing low vision aids Section Four: Rehabilitation strategies and techniques This is an important reference tool for all professionals involved with the visually impaired. The book covers everything a practitioner will need on a day-to-day basis. Clear layout with practical tips, worked examples and practical pearls will enable the front-line eye-care professional to provide patients with sound, research-based clinical care and rehabilitation. An essential reference for: . Ophthalmology . Optometry . Orthoptics . Ophthalmic nursing . Visual rehabilitation . Occupational therapy . Social work . Peer work . Psychology . Dispensing opticians Originally published in the Soviet Union in 1968, this book provides a unique viewpoint, and the description below comes from the original publication. This textbook for the students of engineering courses at technical schools covers the basic elements of descriptive geometry, projection and engineering drawing and drawing techniques. The material in each section is illustrated by examples drawn from engineering practice, while the figures and illustrations follow the latest technical and industrial developments. To help the student get a better grasp of the subject, drawings of parts and units are supplemented with photographs and axonometric projections. Thanks to the numerous examples and exercises provided, the book can be used for self-instruction and home study. Sergei Bogolyubov is an experienced Soviet teacher and authority on engineering drawing, which he has been teaching for over thirty years. He has done much work both on teaching methods and on the preparation of textbooks and manuals. He is also the author of an atlas of machine components and manuals of the equipment of drawing offices. His books Engineering Drawing, Problems in Drawing, and A Course of Technical Drawing are widely used. Alexander Voinov is Associate Professor of Drawing at the Bauman Higher Technical School in Moscow. He is the author of a number of textbooks and teaching aids on engineering drawing, and has twenty-five years experience of teaching at colleges of technology. About the

Book: Written by three distinguished authors with ample academic and teaching experience, this textbook, meant for diploma and degree students of Mechanical Engineering as well as those preparing for AMIE examination, incorporates the latest research directed towards realizing and assessing sustainability in the built environment. It reports on advanced engineering methods for sustainable infrastructure design, as well as on assessments of the efficient methods and the social, environmental, and economic impact of various designs and projects. The book covers a range of topics, including the use of recycled materials in architecture, ergonomics in buildings and public design, sustainable design for smart cities, design for the aging population, industrial design, human scale in architecture, and many more. Based on the AHFE 2018 International Conference on Human Factors, Sustainable Urban Planning and Infrastructure, held on July 21–25, 2018, in Orlando, Florida, USA, it offers various perspectives on sustainability and ergonomics. As such, it is a valuable reference resource for designers, urban engineers, architects, infrastructure professionals, public infrastructure owners, policy makers, government engineers and planners, as well as operations managers and academics active in urban and infrastructure research. Python is a free open-source language and environment that has tremendous potential in the scientific computing domain. Computing with Python presents the programming language in tight connection with mathematical applications. The approach of the book is concept based rather than a systematic introduction to the language. It is written for a mathematical readership and is aimed at students with a mathematical background. Financial planner and broker Julie Stav has been helping women get rich for years. Now she offers her hands-on techniques and inspiring advice in a book that simplifies the stock market and puts a new world of wealth within reach. And with updated information—including current examples, the hottest new websites, and more—this smart, sensible, and down-to-earth book is the ideal guide for women who want to invest in their dreams. The blue-eyed boy of Indian publishing,

Abhimanyu Razdan is known for his bestselling romances, which move his readers to tears. PaperInk, an up-and-coming publishing house, is looking for an A-list author who will take them to the next level. So, when Abhimanyu's contract with his current publishers comes to an end, PaperInk decides to swoop in. But Abhimanyu isn't quite like the emotional and sensitive characters in the novels he writes. Callous, egoistic and drunk on success, he gets into a hot argument with Asmita, PaperInk's literary fiction editor, even before his first meeting with them. Already put off, despite her apology, he is even more incensed when he discovers that Asmita looks down on popular fiction, especially the kind he writes. He vows to teach her a lesson that could jeopardize her job. At each other's throats, Abhimanyu and Asmita are as different as can be, but fate has something else in store and they soon find that there is no running away from love. This book is meant for the Engineering Drawing course offered to the students of all engineering disciplines in their first year. An important highlight of this book is the inclusion of practical hints along with theory which would enable the students to make perfect drawings. Collects conditioning programs for athletes between the ages of six and eighteen, offering over three hundred exercises for increasing coordination, flexibility, speed, endurance, and strength This senior undergraduate level textbook is written for Advanced Manufacturing, Additive Manufacturing, as well as CAD/CAM courses. Its goal is to assist students in colleges and universities, designers, engineers, and professionals interested in using SolidWorks as the design and 3D printing tool for emerging manufacturing technology for practical applications. This textbook will bring a new dimension to SolidWorks by introducing readers to the role of SolidWorks in the relatively new manufacturing paradigm shift, known as 3D-Printing which is based on Additive Manufacturing (AM) technology. This new textbook: Features modeling of complex parts and surfaces Provides a step-by-step tutorial type approach with pictures showing how to model using SolidWorks Offers a user-Friendly approach for the design of parts, assemblies, and drawings, motion-analysis, and FEA topics

Includes clarification of connections between SolidWorks and 3D-Printing based on Additive Manufacturing Discusses a clear presentation of Additive Manufacturing for Designers using SolidWorks CAD software "Introduction to SolidWorks: A Comprehensive Guide with Applications in 3D Printing" is written using a hands-on approach which includes a significant number of pictorial descriptions of the steps that a student should follow to model parts, assemble parts, and produce drawings. This book comprises select peer-reviewed contributions from the 6th International Conference on Production and Industrial Engineering (CPIE – 2019). The volume focuses on latest research in the field of Industrial and Systems Engineering, and its allied areas. Articles on variety of topics such as Human Factors Engineering, Lean Manufacturing, Six Sigma, Logistics and Supply Chain Management, Operations Research, Quality Engineering, Measurement and Control, Reliability and Maintenance Engineering, Green Supply Chain Management, Modelling and Simulation, Sustainability, Technology Management, Agile and Flexible Manufacturing, Technology Management and Computer Aided Manufacturing are discussed in this book. Given the range of topics covered, the book will be useful for students, researchers, and professionals interested in different areas of Industrial and Systems Engineering. This textbook "Engineering Graphics and Design" is based on the latest outcome based model

curriculum of the AICTE. The book covers complete syllabus catering requirements of all major technical universities and institutes and provides insights into traditional engineering graphics as well as treats of the subject using 2D and 3D design software. It offers technical details, current standard, real world examples and clearly explains theory and technique in highly visual and concise format. The topic covered in this book are arranged into 9 chapters comprising self-explanatory diagrams and solved examples. Salient Features: 1 Introduction of Engineering Drawing 1 Orthographic Projection 1 Projection of Solids 1 Section of Solids and Development of Surfaces 1 Isometric Projection 1 Overview of Computer Graphics 1 CAD Drawing 1 Solid Modelling 1 Team Design Project. 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.

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