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engineering design and mathematical modelling concepts and applications consists of chapters that span the engineering design and mathematical modelling domains engineering design and mathematical modelling are key tools techniques in the science technology and innovation spheres whilst engineering design is concerned with the creation of functional innovative products and processes mathematical modelling seeks to utilize mathematical principles and concepts to describe and control real world phenomena both of these can be useful tools for spurring and hastening progress in developing countries they are also areas where africa needs to skill up in order to build a technological base the chapters in this book cover the relevant research trends in the fields of both engineering design and mathematical modelling this book was originally published as a special issue of the african journal of science technology innovation and development

chemical engineering design principles practice and economics of plant and process design is one of the best known and most widely adopted texts available for students of chemical engineering the text deals with the application of chemical engineering principles to the design of chemical processes and equipment the third edition retains its hallmark features of scope clarity and practical emphasis while providing the latest us codes and standards including api asme and isa design codes and ansi standards as well as coverage of the latest aspects of process design operations safety loss prevention equipment selection and more the text is designed for chemical and biochemical engineering students senior undergraduate year plus appropriate for capstone design courses where taken and professionals in industry chemical process biochemical pharmaceutical petrochemical sectors provides students with a text of unmatched relevance for chemical process and plant design courses and for the final year capstone design course written by practicing design engineers with extensive undergraduate teaching experience contains more than 100 typical industrial design projects drawn from a diverse range of process industries new to this edition includes new content covering food pharmaceutical and biological processes and commonly used unit operations provides updates on plant and equipment costs regulations and technical standards includes limited online access for students to cost engineering s cleopatra enterprise cost estimating software

this is the proceedings of the selected papers presented at 2011 international conference on engineering education and management iceem2011 held in guangzhou china during november 18 20 2011 iceem2011 is one of the most important conferences in the field of engineering education and management and is co organized by guangzhou university the university of new south wales zhejiang university and xi an jiaotong university the conference aims to provide a high level international forum for scientists engineers and students to present their new advances and research results in the field of engineering education and management this volume comprises 121 papers selected from over 400 papers originally submitted by universities and industrial concerns all over the world the papers specifically cover the topics of management science and engineering engineering education and training project engineering management and other related topics all

of the papers were peer reviewed by selected experts the papers have been selected for this volume because of their quality and their relevancy to the topic this volume will provide readers with a broad overview of the latest advances in the field of engineering education and management it will also constitute a valuable reference work for researchers in the fields of engineering education and management

the second edition features new content examples methods techniques and best practices assurance technologies principles and practices is based on the assertion that safety is not a cost but an excellent investment according to the authors more than sixty percent of problems in complex systems arise from incomplete vague and poorly written specifications in keeping with the authors passion for safety the text is dedicated to uniting the gamut of disciplines that are essential for effective design applying assurance technology principles including system safety reliability maintainability human engineering quality logistics software integrity and system integration readers familiar with the first edition of this text will recognize all the hallmarks that have made it a classic in its field the second edition features a host of new examples methods techniques and best practices to bring the text fully up to date with the state of the art in assurance technology much new content has been added as well including four new chapters managing safety related risks statistical concepts loss analysis and safety related applications models concepts and examples applying scenario driven hazard analysis automation computer and software complexities the text begins with an introduction and overview of assurance technology next readers are provided with fundamental statistical concepts the chapters that follow explore in depth the approaches and disciplines that make up assurance technology applications each chapter is organized into major phases design manufacturing test and use phase that help readers understand both how and when to apply particular measures throughout the text readers discover detailed examples that prepare them to manage real world challenges references and further reading are provided at the end of each chapter leading to more in depth discussion on specialized topics with its extensive use of examples and highly structured approach this is an excellent course book for students in industrial engineering systems engineering risk engineering and other assurance technology domains design and system engineers

as well as safety professionals will find the material essential in troubleshooting complex projects and ensuring product process and system safety

this book presents modern software technology and the tools necessary for teaching computer aided design and developing application software in the area of engineering design the c programming language is presented and its importance for developing efficient and portable software is highlighted programming for graphics is described using the graphical kernel system and drafting is illustrated through the package autocad database structures and database mana gement techniques are introduced to meet the needs of appli cation programmers knowledge based expert systems are pre sented with illustrations to show the potential use of this ai technology for engineering design finite element analy sis provides powerful numerical techniques for engineering analysis and widely used packages are discussed optimiza tion techniques can help the engineer arrive at an economi cal design solution and a brief description is given of so mewidely used numerical algorithms typical cad applica tions are described with references and integrated softwa re requirements for cad are discussed in addition to the examples in the text exercises are given at the end of each chapter to provide experience in using the tools presented for the development of cad software

emphasizing freehand sketching visualization and computer solid modeling this book will prove invaluable as a reference for professionals involved in engineering engineering graphics and engineering technology who need an update on the basic design concepts of cadkey versions 5 and 6

taking a learn by doing approach software engineering design theory and practice uses examples review questions chapter exercises and case study assignments to provide students and practitioners with the understanding required to design complex software systems explaining the concepts that are immediately relevant to software designers it be

the emphasis of the book reflects the changes that many institutions are incorporating including the importance of

sketching 3d solid modeling and the use of design databases throughout the engineering process features benefits presents sketching and modeling techniques in the context of the design process organization more closely reflects industry practice users first learn to sketch their ideas to transform 2d sketches into 3d models to refine the models and use them for analysis and finally to use the models to document the design as they would on a project gives the user a strong framework for understanding why they should learn to sketch when it is appropriate to use different kinds of models and what they need to discover in order to prepare a model for manufacture includes a chapter on exporting and using the model data for downstream applications including rapid prototypes that presents additional considerations for creating a useful design database emphasizes sketching and visualization techniques throughout the text designer s notebook feature highlights the use of sketching in the context of industrial practice reinforces the role of sketching in each chapter through the entire design process users learn to use a full range of drawing views and projections in their sketches in early chapters actual sketches used as illustrations allow the reader to compare their efforts with other sketches not instrument or cad drawings encourages users to keep a notebook of sketches by showing how practicing engineers use sketching emphasizes solid and parametric modeling software as a means to building a design database presents the big picture of the many uses of the cad database anchoring modeling techniques in the context of design helps users build an understanding of design intent as they learn to model aids users in evaluating the strengths and weaknesses of the software they are learning to use in lab by providing a comparison of modeling methods encourages the reader to think about the broader context for their models so they plan for flexibility downstream applications and manufacture as they are learning to model fosters a real world approach to engineering communication through the use of industry cases that profile practice in major corporation present specific instances of general principles presented in the text giving users a clear idea of the contemporary software tools and techniques used to create design show how design goals influence the way models are made presents a wide variety of software and presentation tools that an engineer will use to help visualize design

this reference for consulting engineers provides the fundamental principles and skills required to operate their own practice it includes guidelines on newtworking for client growth getting free publicity bringing in partners extending a practice internationally and generating maximum profit

the engineering design of systems comprehensive resource covering methods to design verify and validate systems with a model based approach addressing engineering of current software centric systems the newly revised and updated fourth edition of the engineering design of systems includes content addressing model based systems engineering digital engineering digital threads ai sysml 1 0 and 2 0 digital twins and genesys software the authors explore system and software centric architecture allocations and logical and physical architecture development including revised terminologies for a variety of subsections throughout composed of 15 chapters this book includes important new sections on modeling approaches for middle out engineering reverse engineering and agile systems engineering with a separate section on emerging trends within systems engineering to explore the most update to date methods the authors include comprehensive diagrams and a separate chapter on a complete exercise of the system engineering process ranging from the operational concept to integration and qualification to aid in reader comprehension and retention of concepts the text is embedded with problems at the end of each chapter along with relevant case studies sample topics covered in the engineering design of systems include structural system models to executable models verification and validation on systems of systems and external systems and context modeling digital engineering digital threads artificial augmented intelligence ai stakeholder requirements and scientific foundations for systems engineering quantifying a context and external systems model including intended and unintended inputs both deterministic and non deterministic functional architecture development logical and physical architecture development allocated architecture development interface design and decision analysis for design trades the engineering design of systems is highly suitable as a main text for undergraduate and graduate students studying courses in system engineering design systems architecture and systems integration the text is also valuable as a reference for practicing system architects systems engineers industrial engineers

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