

Object Oriented Classical Software Engineering Seventh Edition

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with new chapters on electrical system optimization and iso 50001 this edition covers the latest updates to codes and standards in the energy industry it includes chapters on energy economic analysis energy auditing waste heat recovery utility system

optimization hvac cogeneration control systems energy management compressed air system optimization and financing energy projects this reference will guide you step by step in applying the principles of energy engineering and management to the design of electrical hvac utility process and building systems for both new design and retrofit projects the text is thoroughly illustrated with tables graphs diagrams and sample problems

software engineering presents a broad perspective on software systems engineering concentrating on widely used techniques for developing large scale systems the objectives of this seventh edition are to include new material on iterative software development component based software engineering and system architectures to emphasize that system dependability is not an add on but should be considered at all stages of the software process and not to increase the size of the book significantly to this end the book has been restructured into 6 parts removing the separate section on evolution as the distinction between development and evolution can be seen as artificial new chapters have been added on socio technical systems a discussing the context of software in a broader system composed of other hardware and software people organisations policies procedures and laws application system architectures a to teach students the general structure of application systems such as transaction systems information systems and embedded control systems the chapter covers 6 common system architectures with an architectural overview and discussion of the characteristics of these types of system iterative software development a looking at prototyping and adding new material on agile methods and extreme programming component based software engineering a introducing the notion of a component component composition and component frameworks and covering design with reuse software evolution a revising the presentation of the 6th edition to cover re engineering and software change in a single chapter the book supports students taking undergraduate or graduate courses in software engineering and software engineers in industry needing to update their knowledge

this leading text in the field maintains its engaging readable style while presenting a broader range of applications that motivate engineers to learn the core thermodynamics concepts two new coauthors help update the material and integrate engaging new problems throughout the chapters they focus on the relevance of thermodynamics to modern engineering problems many relevant engineering based situations are also presented to help engineers model and solve these problems

applied statistics and probability for engineers provides a practical approach to probability and statistical methods students learn how the material will be relevant in their careers by including a rich collection of examples and problem sets that reflect realistic applications and situations this product focuses on real engineering applications and real engineering solutions while including material on the bootstrap increased emphasis on the use of p value coverage of equivalence testing and combining p values the

base content examples exercises and answers presented in this product have been meticulously checked for accuracy the enhanced e text is also available bundled with an abridged print companion and can be ordered by contacting customer service here isbn 9781119456261 price 97 95 canadian price 111 50

no engineering structure can be built on the ground or within it without the influence of geology being experienced by the engineer yet geology is an ancillary subject to students of engineering and it is therefore essential that their training is supported by a concise reliable and usable text on geology and its relationship to engineering in this book all the fundamental aspects of geology are described and explained but within the limits thought suitable for engineers it describes the structure of the earth and the operation of its internal processes together with the geological processes that shape the earth and produce its rocks and soils it also details the commonly occurring types of rock and soil and many types of geological structure and geological maps care has been taken to focus on the relationship between geology and geomechanics so emphasis has been placed on the geological processes that bear directly upon the composition structure and mechanics of soil and rocks and on the movement of groundwater the descriptions of geological processes and their products are used as the basis for explaining why it is important to investigate the ground and to show how the investigations may be conducted at ground level and underground specific instruction is provided on the relationship between geology and many common activities undertaken when engineering in rock and soil

innovations in computing sciences and software engineering includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of computer science software engineering computer engineering and systems engineering and sciences topics covered image and pattern recognition compression image processing signal processing architectures signal processing for communication signal processing implementation speech compression and video coding architectures languages and systems algorithms databases embedded systems and applications file systems and i o geographical information systems kernel and os structures knowledge based systems modeling and simulation object based software engineering programming languages and programming models and tools parallel processing distributed scheduling multiprocessing real time systems simulation modeling and development and applications signal and image processing content based video retrieval character recognition incremental learning for speech recognition signal processing theory and methods and vision based monitoring systems software and systems activity based software estimation algorithms genetic algorithms information systems security programming languages software protection techniques software protection techniques and user interfaces distributed processing asynchronous message passing system heterogeneous software environments mobile ad hoc networks resource allocation and sensor networks new trends in computing computers for people of special needs fuzzy inference human computer interaction incremental learning internet based computing models machine intelligence natural language

this book discusses practices in preparing and defending claims bringing in funding insurance and design team issues it brings together the basic knowledge from the principal post 1996 legislation required by practitioners together with an outline of the options and risks

this book is about the use of modern statistical methods for quality control and improvement it provides comprehensive coverage of the subject from basic principles to state of the art concepts and applications the objective is to give the reader a sound understanding of the principles and the basis for applying them in a variety of situations although statistical techniques are emphasized throughout the book has a strong engineering and management orientation extensive knowledge of statistics is not a prerequisite for using this book readers whose background includes a basic course in statistical methods will find much of the material in this book easily accessible

the leading structural concrete design reference for over two decades updated to reflect the latest aci 318 19 code a go to resource for structural engineering students and professionals for over twenty years this newly updated text on concrete structural design and analysis reflects the most recent aci 318 19 code it emphasizes student comprehension by presenting design methods alongside relevant codes and standards it also offers numerous examples presented using si units and us si conversion factors and practice problems to guide students through the analysis and design of each type of structural member new to structural concrete theory and design seventh edition are code provisions for transverse reinforcement and shear in wide beams hanger reinforcement and bi directional interaction of one way shear this edition also includes the latest information on two way shear strength ordinary walls seismic loads reinforcement detailing and analysis and materials requirements this book covers the historical background of structural concrete advantages and disadvantages codes and practice and design philosophy and concepts it then launches into a discussion of the properties of reinforced concrete and continues with chapters on flexural analysis and design deflection and control of cracking development length of reinforcing bars designing with the strut and tie method one way slabs axially loaded columns and more updated to align with the new aci 318 19 code with new code provisions to include transverse reinforcement and shear in wide beams hanger reinforcement bi directional interaction of one way shear and reference to aci certifications includes dozens of worked examples that explain the analysis and design of structural members offers updated information on two way shear strength seismic loads materials requirements and more improves the design ability of students by explaining code requirements and restrictions provides examples in si units in every chapter as well as conversion factors from customary units to si offers instructors access to a solutions manual via the book s companion website structural concrete theory and design seventh edition is an excellent text for undergraduate and graduate students in civil and structural engineering programs it will also benefit concrete designers structural engineers and civil engineers focused on structures

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Introduction

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