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 for Designers, Engineers, Technologists, Estimators, Project Managers, and Financial Analysts
 (with illustrative case study problems and solutions), Third Edition

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SIMONE VALERIE

Fundamentals of Engineering Economics and Decision Analysis Morgan & Claypool Publishers
 Introduction to Engineering Design is a practical, straightforward workbook designed to systematize the often messy process of designing solutions to open-ended problems. From learning about the problem to prototyping a solution, this workbook guides developing engineers and designers through the iterative steps of the engineering design process. Created in a freshman engineering design course over ten years, this workbook has been refined to clearly guide students and teams to success. Together with a series of instructional videos and short project examples, the workbook has space for teams to execute the engineering design process on a challenge of their choice. Designed for university students as well as motivated learners, the workbook supports creative students as they tackle important problems. Introduction to Engineering Design is designed for educators looking to use project-based engineering design in their classroom.

Morgan & Claypool Publishers

This book is written to address the issues relating to data gathering, data warehousing, and data analysis, all of which are useful when working with large amounts of data. Using practical examples of market intelligence, this book is designed to inspire and inform readers on how to conduct market intelligence by leveraging data and technology, supporting smart decision making. The book explains some suitable methodologies for data analysis that are based on robust statistical methods. For illustrative purposes, the author uses real-life data for all the examples in this book. In addition, the book discusses the concepts, techniques, and applications of digital media and mobile data mining. Hence, this book is a guide tool for policy makers, academics, and practitioners whose areas of interest are statistical inference, applied statistics, applied mathematics, business mathematics, quantitative techniques, and economic and social statistics.

Engineering Digital Design Morgan & Claypool Publishers

As a social space, the web provides researchers both with a tool and an environment to explore the intricacies of everyday life. As a site of mediated interactions and interrelationships, the 'digital' has evolved from being a space of information to a space of creation, thus providing new opportunities regarding how, where and, why to conduct social research. Doing Research In and On the Digital aims to deliver on two fronts: first, by detailing how researchers are devising and applying innovative research methods for and within the digital sphere, and, secondly, by discussing the ethical challenges and issues implied and encountered in such approaches. In two core Parts, this collection explores: content collection: methods for harvesting digital data engaging research informants: digital participatory methods and data stories . With contributions from a diverse range of fields such as anthropology, sociology, education, healthcare and psychology, this volume will particularly appeal to post-graduate students and early career researchers who are navigating through new terrain in their digital-mediated research endeavours.

Introduction to Engineering Design Elsevier

"Engineering Digital Design" provides the most extensive coverage of any available textbook in digital logic and design. Modern notation combines with a state-of-the-art treatment of the most important subjects in digital design to provide the student with the background needed to enter industry or graduate study at a competitive level. Software programs, including a logic minimizer and a logic simulator, are provided on a CD-ROM and include detailed instructions for use.

Strategic Cost Fundamentals Morgan & Claypool Publishers

Geometric Programming is used for cost minimization, profit maximization, obtaining cost ratios, and the development of generalized design equations for the primal variables. The early pioneers of geometric programming—Zener, Duffin, Peterson, Beightler, Wilde, and Phillips—played important roles in its development. Five new case studies have been added to the third edition. There are five

major sections: (1) Introduction, History and Theoretical Fundamentals; (2) Cost Minimization Applications with Zero Degrees of Difficulty; (3) Profit Maximization Applications with Zero Degrees of Difficulty; (4) Applications with Positive Degrees of Difficulty; and (5) Summary, Future Directions, and Geometric Programming Theses & Dissertations Titles. The various solution techniques presented are the constrained derivative approach, condensation of terms approach, dimensional analysis approach, and transformed dual approach. A primary goal of this work is to have readers develop more case studies and new solution techniques to further the application of geometric programming.

Philosophy and Engineering Education Morgan & Claypool Publishers

The authors cover two general topics: basic engineering economics and risk analysis in this text. Within the topic of engineering economics are discussions on the time value of money and interest relationships. These interest relationships are used to define certain project criteria that are used by engineers and project managers to select the best economic choice among several alternatives. Projects examined will include both income- and service-producing investments. The effects of escalation, inflation, and taxes on the economic analysis of alternatives are discussed. Risk analysis incorporates the concepts of probability and statistics in the evaluation of alternatives. This allows management to determine the probability of success or failure of the project. Two types of sensitivity analyses are presented. The first is referred to as the range approach while the second uses probabilistic concepts to determine a measure of the risk involved. The authors have designed the text to assist individuals to prepare to successfully complete the economics portions of the Fundamentals of Engineering Exam. Table of Contents: Introduction / Interest and the Time Value of Money / Project Evaluation Methods / Service Producing Investments / Income Producing Investments / Determination of Project Cash Flow / Financial Leverage / Basic Statistics and Probability / Sensitivity Analysis

The Making of Green Engineers IGI Global

Revised and Updated, Featuring a New Case Study How do successful companies create products people can't put down? Why do some products capture widespread attention while others flop? What makes us engage with certain products out of sheer habit? Is there a pattern underlying how technologies hook us? Nir Eyal answers these questions (and many more) by explaining the Hook Model—a four-step process embedded into the products of many successful companies to subtly encourage customer behavior. Through consecutive "hook cycles," these products reach their ultimate goal of bringing users back again and again without depending on costly advertising or aggressive messaging. Hooked is based on Eyal's years of research, consulting, and practical experience. He wrote the book he wished had been available to him as a start-up founder—not abstract theory, but a how-to guide for building better products. Hooked is written for product managers, designers, marketers, start-up founders, and anyone who seeks to understand how products influence our behavior. Eyal provides readers with: • Practical insights to create user habits that stick. • Actionable steps for building products people love. • Fascinating examples from the iPhone to Twitter, Pinterest to the Bible App, and many other habit-forming products.

Introduction to Engineering Research John Wiley & Sons

The aim of this book is to supply valid and reasonable parameters in order to guide the choice of the right model of industrial evaporative tower according to operating conditions which vary depending on the particular industrial context: power plants, chemical plants, food processing plants and other industrial facilities are characterized by specific assets and requirements that have to be satisfied. Evaporative cooling is increasingly employed each time a significant water flow at a temperature which does not greatly differ from ambient temperature is needed for removing a remarkable heat load; its aim is to refrigerate a water flow through the partial evaporation of the same.

How to Build Habit-Forming Products Morgan & Claypool Publishers

The Engineering Design Challenge addresses teaching engineering design and presents design

projects for first-year students and interdisciplinary design ventures. A short philosophy and background of engineering design is discussed. The organization of the University of Wyoming first-year Introduction to Engineering program is presented with an emphasis on the first-year design challenges. These challenges are presented in a format readily incorporated in other first-year programs. The interdisciplinary design courses address the institutional constraints and present organizational approaches that resolve these issues. Student results are summarized and briefly assessed. A series of short intellectual problems are included to initiate discussion and understanding of design issues. Sample syllabi, research paper requirements, and oral presentation evaluation sheets are included.

The Art of Teaching Physics with Ancient Chinese Science and Technology Morgan & Claypool Publishers

As long as humans have existed on the planet, they have looked at the world around them and wondered about much of what they saw. This book covers 21 different phenomena that have been observed in nature and puzzled about for decades. Only recently, with the development of the microscopes and other tools that allow us to study, evaluate, and test these observed phenomena at the molecular and atomic scale, have researchers been able to understand the science behind these observations. From the strength of a marine sponge found at the depths of the oceans, to the insect-hydroplaning surface of the edge of a plant, to the intricacies of the eyes of a moth, nanotechnology has allowed science to define and understand these amazing capabilities. In many cases, this new understanding has been applied to products and applications that benefit humans and the environment. For each of the five ecosystems—the ocean, insects, flora, fauna, and humans—the observations, study and understanding, and applications will be covered. The relationship between the more easily observed macro level and understanding what is found at the nanoscale will also be discussed.

Doing Research In and On the Digital Macmillan International Higher Education

Offers exceptional breadth of coverage without sacrificing depth and does not restrict itself solely to theory at the expense of practical applications, which are emphasized throughout. Suitable for HND and undergraduate students, the coverage and approach is relevant for specialist and non-specialist engineers. Important topics include electromagnetic compatibility in view of recent EU legislation.

Solutions to Problems book available to bona fide lecturers.

Digital Electronics 1 Academic Press

All educators bring to their work preconceived ideas of what the curriculum should be and how students learn. Seldom are they thought through. Since without an adequate philosophical base it is difficult to bring about desirable changes in policy and practice, it is necessary that educators have defensible philosophies of engineering education. This point is illustrated by recent debates on educational outcomes which can be analysed in terms of competing curriculum ideologies. While these ideologies inform the development of a philosophy of engineering education they do so in light of a philosophy of engineering for such a philosophy focuses on what engineering is, and in particular how it differs from science. This is addressed in this study through consideration of the differences in the modes of abstraction required for the pursuit of science on the one hand, and the pursuit of engineering design, on the other hand. It is shown that a philosophy of engineering is not a philosophy of science or a philosophy of engineering education, but it is from a philosophy of engineering that a philosophy of engineering education is drawn. Uncertainty is shown to be a key characteristic of engineering practice. A way of formulating a philosophy of engineering is to consider it through the classical prism that splits the subject into five divisions, namely epistemology, metaphysics, logic, ethics aesthetics. Additionally, “behaviour” also characterizes the practice of engineering.

Books in Print Supplement Springer Science & Business Media

Doing research is an ever-changing challenge for social scientists. This challenge is harder than ever today as current societies are changing quickly and in many, sometimes conflicting, directions. Social phenomena, personal interactions, and formal and informal relationships are becoming more borderless and disconnected from the anchors of the offline “reality.” These dynamics are heavily marking our time and are suggesting evolutionary challenges in the ways we know, interpret, and analyze the world. Internet and computer-mediated communication (CMC) is being incorporated into every aspect of daily life, and social life has been deeply penetrated by the internet. This is due to recent technological developments that increase the scope and range of online social spaces and the forms and time of participation such as Web 2.0, which widened the opportunities for user-generated content, the emergence of an “internet of things,” and of ubiquitous mobile devices that make it possible to always be connected. This implies an adjustment to epistemological and methodological stances for conducting social research and an adaptation of traditional social research methods to the specificities of online interactions in the digital society. The Handbook of Research on Advanced Research Methodologies for a Digital Society covers the different strands of methods most affected by the change in a digital society and develops a broader theoretical reflection on the future of social research in its challenge to always be fitting, suitable, adaptable, and pertinent to the society to be studied. The chapters are geared towards unlocking the future frontiers and potential for social research in the digital society. They include theoretical, epistemological, and ontological reflections about the digital research methods as well as innovative methods and tools to collect, analyze, and interpret data. This book is ideal for social scientists, practitioners, librarians, researchers, academicians, and students interested in social research methodology and its developments in the digital scenario.

Data Mining and Market Intelligence Springer Nature

Blending physics with the study of ancient Chinese science, technology, and culture is a unique and highly effective way to present the fundamentals of physics to non-science majors. Based on the author’s course at Mercer University (Georgia, U.S.), *The Art of Teaching Physics with Ancient Chinese Science and Technology* exposes a wide range of students to the scientific method and techniques of experimental analysis through the eyes and discoveries of ancient Chinese “polymaths” long before the European concept of the scientific method was even considered. No other book so deftly makes the connections from ancient China to Ben Franklin to Michael Faraday

while teaching physics at the same time. A distinctive characteristic of this book is the detailed hands-on laboratory experiments. This first includes making a simple magnetic compass and magnetometer. Students then use the compass/magnetometer to measure the strength of the magnetic field produced by a long straight wire. The second experiment covers two different methods of mining copper to introduce students to simple chemical principles such as displacement reactions, oxidation, reduction, and electronegativity. Originally developed for non-science students in an Asian studies environment, this book provides a valuable resource for science teachers who wish to explore the historical connections largely ignored in traditional texts. When paired with *Teaching Physics through Ancient Chinese Science and Technology* (Marone, 2019), these two texts provide a unique means of studying selected topics traditionally found in a two-semester Physics course.

Research Methods across Fields of Inquiry Morgan & Claypool Publishers

There is only a very limited number of physical systems that can be exactly described in terms of simple analytic functions. There are, however, a vast range of problems which are amenable to a computational approach. This book provides a concise, self-contained introduction to the basic numerical and analytic techniques, which form the foundations of the algorithms commonly employed to give a quantitative description of systems of genuine physical interest. The methods developed are applied to representative problems from classical and quantum physics.

Nanotechnology Past and Present Morgan & Claypool Publishers

Each one of us has views about education, how discipline should function, how individuals learn, how they should be motivated, what intelligence is, and the structures (content and subjects) of the curriculum. Perhaps the most important beliefs that (beginning) teachers bring with them are their notions about what constitutes “good teaching”. The scholarship of teaching requires that (beginning) teachers should examine (evaluate) these views in the light of knowledge currently available about the curriculum and instruction, and decide their future actions on the basis of that analysis. Such evaluations are best undertaken when classrooms are treated as laboratories of inquiry (research) where teachers establish what works best for them. Two instructor centred and two learner centred philosophies of knowledge, curriculum and instruction are used to discern the fundamental (basic) questions that engineering educators should answer in respect of their own beliefs and practice. They point to a series of classroom activities that will enable them to challenge their own beliefs, and at the same time affirm, develop, or change their philosophies of knowledge, curriculum and instruction.

A Special Issue of Analog Integrated Circuits and Signal Processing, An International Journal Volume 14, Nos. 1/2 (1997) Routledge

The omnipresence of electronic devices in our everyday lives has been accompanied by the downscaling of chip feature sizes and the ever increasing complexity of digital circuits. This book is devoted to the analysis and design of digital circuits, where the signal can assume only two possible logic levels. It deals with the basic principles and concepts of digital electronics. It addresses all aspects of combinational logic and provides a detailed understanding of logic gates that are the basic components in the implementation of circuits used to perform functions and operations of Boolean algebra. Combinational logic circuits are characterized by outputs that depend only on the actual input values. Efficient techniques to derive logic equations are proposed together with methods of analysis and synthesis of combinational logic circuits. Each chapter is well structured and is supplemented by a selection of solved exercises covering logic design practices.

Digital Engineering Design Morgan & Claypool Publishers

Undergraduate and first-year graduate students engaging in engineering research need more than technical skills and tools to be successful. From finding a research position and funding, to getting the mentoring needed to be successful while conducting research responsibly, to learning how to do the other aspects of research associated with project management and communication, this book provides novice researchers with the guidance they need to begin developing mastery. Awareness and deeper understanding of the broader context of research reduces barriers to success, increases capacity to contribute to a research team, and enhances ability to work both independently and collaboratively. Being prepared for what’s to come and knowing the questions to ask along the way allows those entering researcher to become more comfortable engaging with not only the research itself but also their colleagues and mentors.

A Unique Opportunity Morgan & Claypool Publishers

Molecular Electronic Junction Transport: Some Pathways and Some Ideas, by Gemma C. Solomon, Carmen Herrmann and Mark A. Ratner Unimolecular Electronic Devices, by Robert M. Metzger and Daniell L. Mattern Active and Non-Active Large-Area Metal-Molecules-Metal Junctions, by Barbara Branchi, Felice C. Simeone and Maria A. Rampi Charge Transport in Single Molecular Junctions at the Solid/Liquid Interface, by Chen Li, Artem Mishchenko and Thomas Wandlowski Tunneling Spectroscopy of Organic Monolayers and Single Molecules, by K. W. Hipps Single Molecule Logical Devices, by Nicolas Renaud, Mohamed Hliwa and Christian Joachim

Computers, Software Engineering, and Digital Devices Morgan & Claypool Publishers

This book is designed to introduce designers, engineers, technologists, estimators, project managers, and financial analysts as well as students in engineering and business to strategic cost tools for project cost evaluations. The three main sections are as follows. (1) Cost Relationships, Financial Statements, and Performance Measures—This section describes the relationships between cash flows and profits; the relationships between financial statements and the Purcell Diagram; and the issues of cost estimating, time-based breakeven analysis and time-based earned schedule. (2) Tools for Economic Evaluations—This section considers the basic mathematical relations used behind the economic equations and factors; discrete and continuous interest; depreciation terms and methods; and the Present Value of Principal Approach for evaluating loans. (3) Methods for Project Evaluation and Risk Analysis—This section considers payback periods, present worth analysis, return on investment, internal rate of return, benefit/cost ratios and positive-negative project balances; risk techniques of sensitivity analysis, optimistic-pessimistic analysis, discrete probability examples, and continuous probability models using the normal and triangular distributions.

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