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## KEY=RECORD - ISABEL KENT

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### POWER DISTRIBUTION SYSTEM RELIABILITY

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#### PRACTICAL METHODS AND APPLICATIONS

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**John Wiley & Sons** A practical, hands-on approach to power distribution system reliability As power distribution systems age, the frequency and duration of consumer interruptions will increase significantly. Now more than ever, it is crucial for students and professionals in the electrical power industries to have a solid understanding of designing the reliable and cost-effective utility, industrial, and commercial power distribution systems needed to maintain life activities (e.g., computers, lighting, heating, cooling, etc.). This books fills the void in the literature by providing readers with everything they need to know to make the best design decisions for new and existing power distribution systems, as well as to make quantitative "cost vs. reliability" trade-off studies. Topical coverage includes: Engineering economics Reliability analysis of complex network configurations Designing reliability into industrial and commercial power systems Application of zone branch reliability methodology Equipment outage statistics Deterministic planning criteria Customer interruption for cost models for load-point reliability assessment Isolation and restoration procedures And much more Each chapter begins with an introduction and ends with a conclusion and a list of references for further reading. Additionally, the book contains actual utility and industrial power system design problems worked out with real examples, as well as additional problem sets and their solutions. Power Distribution System Reliability is essential reading for practicing engineers, researchers, technicians, and advanced undergraduate and graduate students in electrical power industries.

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#### ORIGIN OF CARBONATE SEDIMENTARY ROCKS

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**John Wiley & Sons** This textbook provides an overview of the origin and preservation of carbonate sedimentary rocks. The focus is on limestones and dolostones and the sediments from which they are derived. The approach is general and universal and draws heavily on fundamental discoveries, arresting interpretations, and keystone syntheses that have been developed over the last five decades. The book is designed as a teaching tool for upper level undergraduate classes, a fundamental reference for graduate and research students, and a scholarly source of information for practicing professionals whose expertise lies outside this specialty. The approach is rigorous, with every chapter being designed as a separate lecture on a specific topic that is encased within a larger scheme. The text is profusely illustrated with all colour diagrams and images of rocks, subsurface cores, thin sections, modern sediments, and underwater seascapes. Additional resources for this book can be found at: [www.wiley.com/go/james/carbonaterocks](http://www.wiley.com/go/james/carbonaterocks)

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#### ENGINEERING ETHICS: CONCEPTS AND CASES

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**Cengage Learning** Bridging the gap between theory and practice, ENGINEERING ETHICS, Fifth Edition, will help you quickly understand the importance of your conduct as a professional and how your actions can affect the health, safety, and welfare of the public. ENGINEERING ETHICS, Fifth Edition, provides dozens of diverse engineering cases and a proven and structured method for analyzing them; practical application of the Engineering Code of Ethics; focus on critical moral reasoning as well as effective organizational communication; and in-depth treatment of issues such as sustainability, acceptable risk, whistle-blowing, and globalized standards for engineering. Additionally, a new companion website offers study questions, self-tests, and additional case studies. Available with InfoTrac Student Collections <http://gocengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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#### OVID ON SCREEN

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## A MONTAGE OF ATTRACTIONS

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**Cambridge University Press** The first study of Ovid, especially his *Metamorphoses*, as inherently visual literature, explaining his pervasive importance in our visual media.

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## A WHOLE NEW ENGINEER: THE COMING REVOLUTION IN ENGINEERING EDUCATION

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*A Revolution Is Coming. It Isn't What You Think.* This book tells the improbable stories of Franklin W. Olin College of Engineering, a small startup in Needham, Massachusetts, with aspirations to be a beacon to engineering education everywhere, and the iFoundry incubator at the University of Illinois, an unfunded pilot program with aspirations to change engineering at a large public university that wasn't particularly interested in changing. That either one survived is story enough, but what they found out together changes the course of education transformation forever: - How joy, trust, openness, and connection are the keys to unleashing young, courageous engineers.- How engineers educated in narrow technical terms with a fixed mindset need an education that actively engages six minds- analytical, design, people, linguistic, body, and mindful- using a growth mindset.- How emotion and culture are the crucial elements of change, not content, curriculum, and pedagogy.- How four technologies of trust are well established and widely available to promote more rapid academic change.- How all stakeholders can join together in a movement of open innovation to accelerate collaborative disruption of the status quo. Read this book and get a glimpse inside the coming revolution in engineering. Feel the engaging stories in this book and understand the depth of change that is coming. Use this book to help select, shape, demand, and create educational experiences aligned with the creative imperative of the twenty-first century.

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## ONTOLOGY MODELING IN PHYSICAL ASSET INTEGRITY MANAGEMENT

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**Springer** This book presents cutting-edge applications of, and up-to-date research on, ontology engineering techniques in the physical asset integrity domain. Though a survey of state-of-the-art theory and methods on ontology engineering, the authors emphasize essential topics including data integration modeling, knowledge representation, and semantic interpretation. The book also reflects novel topics dealing with the advanced problems of physical asset integrity applications such as heterogeneity, data inconsistency, and interoperability existing in design and utilization. With a distinctive focus on applications relevant in heavy industry, *Ontology Modeling in Physical Asset Integrity Management* is ideal for practicing industrial and mechanical engineers working in the field, as well as researchers and graduate concerned with ontology engineering in physical systems life cycles.

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## CONTROLLING TECHNOLOGY

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## ETHICS AND THE RESPONSIBLE ENGINEER

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**John Wiley & Sons** *Controlling Technology Ethics and the Responsible Engineer Second Edition* This valuable guide provides an in-depth treatment of what constitutes ethical behavior on the part of engineers. It carefully examines the various conflicts faced by engineers and offers practical, proven advice on what to do in such situations. This revised and considerably expanded Second Edition examines the causes and consequences of technological disasters such as Bhopal, Chernobyl, Challenger, and the precursor of them all, the Titanic. It also describes such highly successful projects as the Panama Canal and the Shinkansen. All the major areas of engineering are covered with interesting case histories describing exemplary behavior of engineers placed in difficult situations. The way in which such ethical engineers can be supported by their professional societies and by the law is explored in depth. *Controlling Technology: Ethics and the Responsible Engineer, Second Edition* presents a practical and fascinating examination of the moral obligations, responsibilities, and challenges faced by engineers as they perform their professional duties. This invaluable guide is must reading for all engineers, graduate engineering students, and others interested in technology and society issues.

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## POLYOLEFIN REACTION ENGINEERING

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**John Wiley & Sons** Monomers composed of carbon and hydrogen atoms are the simple building blocks that make up polyolefins - molecules which are extremely useful and which have an extraordinary range of properties and applications. How these monomer molecules are connected in the polymer chain defines the molecular architecture of polyolefins. Written by two world-renowned authors pooling their experience from industry and academia, this book adopts a unique engineering approach using elegant mathematical modeling techniques to relate polymerization conditions, reactor and catalyst type to polyolefin properties. Readers thus learn how to design and optimize polymerization conditions to produce polyolefins with a given microstructure, and how different types of reactors and processes are used to create the different products. Aimed at polymer chemists, plastics technologists, process engineers, the plastics industry, chemical engineers, materials scientists, and company libraries.

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**THE NEW CONSULTANT'S QUICK START GUIDE**

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**AN ACTION PLAN FOR YOUR FIRST YEAR IN BUSINESS**

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**Wiley** An action plan for working as a consultant Management consulting is a \$250 billion industry and growing at a rate of over four percent annually. Many predict that more than 40 percent of the U.S. workforce will soon be contingent, freelance, or consulting members of the workforce—making this book more relevant than ever. Individuals become independent consultants out of necessity or preference: necessity because they lost their job or the company offered an attractive exit package; preference because they want a career change, more control over their time, or an enriched, varied work situation. Consulting also appeals to the Millennial workforce who are searching for careers that offer a good salary as well as meaningful work. The New Consultant's Quick Start Guide: • Serves as a companion to The New Business of Consulting • Provides you with a place to plan your transition into consulting • Helps you identify your niche, develop a business plan, charge what you're worth, and create a marketing strategy to ensure a steady stream of clients • Prepares you for changes you will encounter beyond your professional life, including social, family, and financial aspects The New Consultant's Quick Start Guide helps you work through the challenges of consulting such as working alone, deciding on necessary insurance coverage, finding your first clients, struggling with cash flow, and understanding market trends.

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**HOW TO START AND STAY AHEAD IN AN ENGINEERING CAREER IN CANADA**

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**Focussedconsulting Comapny**

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**SENIOR DESIGN PROJECTS IN MECHANICAL ENGINEERING**

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**A GUIDE BOOK FOR TEACHING AND LEARNING**

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**Springer Nature**

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**ETHICAL ISSUES IN ENGINEERING**

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**Pearson College Division** This anthology focuses on ethical issues confronting individual engineers and the entire engineering profession.

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**ETHICS AND THE PROFESSIONS**

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These essays look at the concept of professional ethics from a range of perspectives. It begins with a look at the concept of profession, asking if it is knowledge or an ideal of service; continues by looking at accountability; and finally, analyzes codes of conduct. The text also covers medical education, moral philosophy, and the ability to face criticism in a positive way.

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**MORPHOLOGY OF ELECTROCHEMICALLY AND CHEMICALLY DEPOSITED METALS**

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**Springer** This book describes the newest achievements in the area of electrochemically and chemically deposited metals and alloys. In particular, the book is devoted to the surface morphology of deposited metals and alloys. It contains an in-depth analysis of the influence of the parameters of electrodeposition or chemical deposition of metals and alloys, which will likely lead to technological advances in industrial settings world-wide. Professionals in electrometallurgical and electroplating plants will find the book indispensable. This book will also be useful in the automotive, aerospace, electronics, energy device and biomedical industries. In academia, researchers in electrodeposition at both undergraduate and graduate levels will find this book a very valuable resource for their courses and projects.

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**ENABLING SUSTAINABLE FOOD SYSTEMS**

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**INNOVATORS' HANDBOOK**

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**Food & Agriculture Org.** Sustainable food systems are fundamental to ensuring that future generations are food secure and eat healthy diets. To transition towards sustainability, many food system activities must be reconstructed, and myriad actors around the world are starting to act locally. While some changes are easier than others, knowing how to navigate through them to promote sustainable consumption and production practices requires complex skill sets. This handbook is written for "sustainable food systems innovators" by a group of innovators from Asia, Africa, the Americas and Europe

who are leading initiatives to grow, share, sell and consume more sustainable foods in their local contexts. It includes experiences that are changing the organizational structures of local food systems to make them more sustainable. The handbook is organized as a “choose your own adventure” story where each reader – individually or in a facilitated group – can develop their own personalized learning and action journeys according to their priorities. The topics included in this handbook are arranged into four categories of innovations: engaging consumers, producing sustainably, getting products to market and getting organized.

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## ADVANCES IN POWER SYSTEMS AND ENERGY MANAGEMENT

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### SELECT PROCEEDINGS OF ETAEERE 2020

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**Springer** This book comprises select proceedings of the international conference ETAEERE 2020, and focuses on contemporary issues in energy management and energy efficiency in the context of power systems. The contents cover modeling, simulation and optimization based studies on topics like medium voltage BTB system, cost optimization of a ring frame unit in textile industry, rectenna for RF energy harvesting, ecology and energy dimension in infrastructural designs, study of AGC in two area hydro thermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line communication. This book can be beneficial for students, researchers as well as industry professionals.

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## ADVANCES IN ERGONOMICS IN DESIGN

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### PROCEEDINGS OF THE AHFE 2020 VIRTUAL CONFERENCE ON ERGONOMICS IN DESIGN, JULY 16-20, 2020, USA

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**Springer Nature** This book provides readers with a timely snapshot of ergonomics research and methods applied to the design, development and prototyping—as well as the evaluation, training and manufacturing—of products, systems and services. Combining theoretical contributions, case studies and reports on technical interventions, it covers a wide range of topics in ergonomic design including ecological design; cultural and ethical aspects in design; interface design, user involvement and human-computer interaction in design; as well as design for accessibility and many others. The book particularly focuses on new technologies such as virtual reality, state-of-the-art methodologies in information design, and human-computer interfaces. Based on the AHFE 2020 Virtual Conference on Ergonomics in Design, held on July 10-16, 2020, the book offers a timely guide for both researchers and design practitioners, including industrial designers, human-computer interaction and user experience researchers, production engineers and applied psychologists.

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## ROBOTS THAT TALK AND LISTEN

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### TECHNOLOGY AND SOCIAL IMPACT

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**Walter de Gruyter GmbH & Co KG** Robots That Talk and Listen provides a forward-looking examination of speech and language in robots from technical, functional, and social perspectives. Contributors address cultural foundations as well as the linguistic skills and technologies that robots need to function effectively in real-world settings. Among the most difficult and complex is the ability to understand and use language. Speech-enabled automata are already serving as interactive toys, teacher’s aides, and research assistants. These robots will soon be joined by personal companions, industrial co-workers, and military support automata. The social impact of these and other robots extends well beyond the specific tasks they perform. Contributors tackle the most knotty of those issues, notably acceptance of advanced, speech-enabled robots and developing ethical and moral controls for robots. Topics in this book include: •Language and Beyond: The True Meaning of “Speech Enabled” •Robots in Myth and Media •Enabling Robots to Converse •Language Learning by Automata •Handling Noisy Settings •Empirical Studies of Robots in Real-World Environments •Acceptance of Intelligent Robots •Managing Robots that Can Lie and Deceive •Envisioning a World Shared with Intelligent Robots

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## THE STORY OF NUREMBERG (MEDIÆVAL TOWNS SERIES)

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**Read Books Ltd** This book presents a detailed historical account of the Nuremberg Trials, the military tribunals orchestrated by the Allied forces after World War II and held in Nuremberg, Germany. A fascinating and insightful exploration of the historical Nazi trials, “The Story of Nuremberg” is highly recommended for those with an interest in WWII and nineteenth-century European history. Contents include: “Development of Nuremberg”, “Nuremberg and the Reformation”, “Nuremberg and the Thirty Years War”, “The Castle, the Walls and Mediæval Fortifications”, “The Council and the Council House—Nuremberg Tortures”, “Albert Durer and the Arts and Crafts of Nuremberg”, “The Meistersingers and Hans Sachs”, et cetera. Many vintage books such as this are becoming increasingly rare and expensive. We are republishing this volume now in an affordable, modern, high-quality edition complete with a specially commissioned new introduction. First published in 1901.

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## TEACHING IN A DIGITAL AGE

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## GUIDELINES FOR TEACHING AND LEARNING

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## PRACTICAL LAW OF ARCHITECTURE, ENGINEERING AND GEOSCIENCE

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AutoCAD 2015 for Interior Design and Space Planning helps students understand the commands and features of AutoCAD 2015 and demonstrates how to use the program to complete interior design and space planning projects. Covering both two- and three-dimensional drawings, the text provides abundant exercises that walk students step-by-step through the use of AutoCAD prompts and commands. Using numerous illustrations, the text captures the essence of this powerful program and the importance it plays in the interior design, architecture and space planning professions. Features include: · Covers new AutoCAD 2015 interface · Progresses from basic commands to complex drawing exercises. · Provides over 100 exercises and projects. · Highlights seven projects appropriate for interior design, space planning and architecture students. · Includes coverage of the AutoCAD DesignCenter · Covers solid modeling in two chapters

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## ENSURING SAFE DRINKING WATER

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## LEARNING FROM FRONTLINE EXPERIENCE WITH CONTAMINATION

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**Amer Water Works Assn** This book focuses on 21 case studies (10 waterborne disease outbreaks, 7 cases of severe chemical contamination and 4 close calls) that are written, as far as the publicly accessible evidence allows, from the perspective of front-line personnel. The intent of this book is to create a story line for each case that will allow front line personnel to imagine themselves in these circumstances and to consider how those things that failed could be relevant to them for assuring the safety of their own system.

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## THE EDUCATION OF ENGINEERS

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## MAN IN THE NATURAL WORLD

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Irvington Pub

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## ELEMENTARY STRUCTURAL ANALYSIS

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## CANADIAN PROFESSIONAL ENGINEERING AND GEOSCIENCE

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## PRACTICE AND ETHICS

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Canadian Professional Engineering and Geoscience: Practice and Ethics, 6e, is a unique and comprehensive text for today's Canadian students and practising professionals. Structured in five parts, the text is written in an approachable and engaging style that effectively covers practice and ethics topics while offering advice for readers to become effective professionals. The authors guide readers through professional licensing, practice, ethics, and environmental practice and ethics using history, case studies, examples, and images to bring the issues to life. The text devotes an entire chapter to preparing readers for the Professional Practice Examination (PPE), including practice questions to bolster success. Canadian Professional Engineering and Geoscience is up to date with Engineers Canada's practice and ethics syllabus and is the recommended study guide for this section of the PPE. The coverage in this sixth edition includes all provinces and territories of Canada and contains updated, new, and revised content and cases including the fascinating new case history: "Accidental Overdose: The Therac-25 Radiation Therapy Accidents." This edition has expanded its Employment, Management, and Consulting sections with new and relevant Canadian cases to keep readers engaged and connected to the content. Canadian Professional Engineering and Geoscience: Practice and Ethics is a vital professional resource for study and reference.

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## SAFETY AND HEALTH FOR ENGINEERS

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**John Wiley & Sons** Safety and Health for Engineers, 3rd Edition, addresses the fundamentals of safety, legal aspects, hazard recognition and control, and techniques for managing safety decisions, as well as: Completely revises and updates all 38 chapters in the book New edition adds more than 110 stories and cases from practice to illustrate various topics or issues New topics on adapting to new safety concerns that arise from technology innovations; convergence of safety, health and environmental departments in many organizations; the concept of prevention through design; and emphasis on

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safety management systems and risk management and analysis Includes learning exercises and computational examples based on real world situations along with in-depth references for each chapter  
Includes a detailed solutions manual for academic adopters Covers the primary topics included in certification exams for professional safety, such as CSP/ASP

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### **ICE MANUAL OF BRIDGE ENGINEERING**

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**Thomas Telford Services Limited** Addresses key topic within bridge engineering, from history and aesthetics to design, construction and maintenance issues. This book is suitable for practicing civil and structural engineers in consulting firms and government agencies, bridge contractors, research institutes, and universities and colleges.

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### **PUBLIC INFORMATION GUIDE**

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### **FE ELECTRICAL AND COMPUTER REVIEW MANUAL**

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### **RAPID PREPARATION FOR THE ELECTRICAL AND COMPUTER FUNDAMENTALS OF ENGINEERING EXAM**

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**Professional Publications Incorporated** Prepare to pass the computer-based FE Electrical and Computer exam with PPI's FE Electrical and Computer Review Manual.

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### **SIX DEGREES OF FREEDOM**

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### **OPPORTUNITIES MET. RISKS TAKEN. LESSONS LEARNED.**

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**FriesenPress** Octogenarian aerospace engineer Peter Hughes identified 6 critical points in his life at which an important decision was required, and where the rest of his life could have been quite different, depending on that decision. In every case, he was completely free to make the decision. In Six Degrees of Freedom, Hughes reflects on a full lifetime, including several work environments, his contributions to the aerospace industry (including work on the Canadarm), a passion for applied mathematics, family life, business and entrepreneurship, travel experience, and medical science. In so doing, and through his wry humor, he provides the reader thoughtful insight and useful life and career lessons.

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### **COULDN'T SHUT UP**

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**Publishamerica Incorporated**

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### **THE CANADIAN LAW OF ARCHITECTURE AND ENGINEERING**

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**Butterworth-Heinemann**

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### **TEACHING IN THE POST COVID-19 ERA**

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### **WORLD EDUCATION DILEMMAS, TEACHING INNOVATIONS AND SOLUTIONS IN THE AGE OF CRISIS**

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**Springer** This handbook showcases extraordinary educational responses in exceptional times. The scholarly text discusses valuable innovations for teaching and learning in times of COVID-19 and beyond. It examines effective teaching models and methods, technology innovations and enhancements, strategies for engagement of learners, unique approaches to teacher education and leadership, and important mental health and counseling models and supports. The unique solutions here implement and adapt effective digital technologies to support learners and teachers in critical times - for example, to name but a few: Florida State University's Innovation Hub and interdisciplinary project-based approach; remote synchronous delivery (RSD) and blended learning approaches used in Yorkville University's Bachelor of Interior Design, General Studies, and Business programs; University of California's strategies for making resources affordable to students; resilient online assessment measures recommended from Qatar University; strategies in teacher education from the University of Toronto/OISE to develop equity in the classroom; simulation use in health care education; gamification strategies; innovations in online second language learning and software for new Canadian immigrants and refugees; effective RSD and online delivery of directing and acting courses by the Toronto Film School, Canada; academic literacy teaching in Colombia; inventive international programs between Japan and Taiwan, Japan and the USA, and Italy and the USA; and, imaginative teaching and assessment methods developed for online Kindergarten - Post-Secondary learners and teachers. Authors share unique global perspectives from a network of educators and researchers from more than thirty locations, schools, and post-secondary institutions worldwide. Educators, administrators, policymakers, and instructional designers will draw insights and guidelines from this text to sustain education during and

beyond the COVID-19 era.

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### **PRINCESS OF AMINABAD**

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### **AN ORDINARY LIFE**

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**Bayeux Arts** Set in early 20th century India, a story of the struggles of a woman of extraordinary strength and character living in a conservative society during a period of cultural and political change.

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### **ELECTRICAL ENGINEERING**

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### **AN INTRODUCTION**

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**Oxford University Press on Demand** This comprehensive revision of a popular text helps non-electrical engineering majors--the future users, rather than the designers of electrical devices, systems, and machines--gain a conceptual understanding of electrical engineering. Early coverage of systems and an emphasis on an IC (integrated circuits) "building block" approach motivates non-majors. The text features integration of analog and digital technology with cutting-edge coverage of op-amps, feedback and analog systems. A section on SPICE, the leading computer-aided circuit analysis software, introduces students to computerized analysis of circuits. Chapter-end Applications capture student interest by relating material to contemporary topics such as automobile suspension systems, high-fidelity audio, and hand-held computers.

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### **GUIDANCE ON THE MONITORING OF LANDFILL LEACHATE, GROUNDWATER AND SURFACE WATER**

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### **THE DESIGN OF STRUCTURES**

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### **A PRACTICAL TREATISE ON THE BUILDING OF BRIDGES, ROOFS, &C**

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### **MY MUMMY IS AN ENGINEER**

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A sweetly illustrated story with a powerful message. 'My Mummy is an Engineer' is the first title by Butterfly Books. This book introduces children to the exciting world of engineering; creating real things that once were dreams. It will not only educate, but also inspire! This story is all about a Mummy's adventure as an engineer, from working with her team in the office to visiting a construction site. It covers various fields of engineering, including electrical, civil and mechanical.

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### **DESIGN OF BREAKWATERS**

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### **PROCEEDINGS OF THE CONFERENCE BREAKWATERS '88 ORGANIZED BY THE INSTITUTION OF CIVIL ENGINEERS AND HELD IN EASTBOURNE ON 4-6 MAY 1988**

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Papers range in topic from the use of physical and mathematical models in the optimization of breakwaters and wave action on breakwater armour units to the effect of the Lagos harbour moles (breakwaters) on the erosion of Victoria beach.