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Canadian Professional Engineering and Geoscience *Cengage Learning*

This comprehensive textbook introduces engineers and geoscientists to the structure, practice, and ethics of their professions and encourages them to apply ethical concepts in their professional lives. It is a comprehensive reference for engineers and geoscientists in any branch of these professions, in any province or territory of Canada. The book is intended for practicing professionals, recent graduates, and senior undergraduates and is an excellent study guide for the practice and ethics part of the Professional Practice Examination (PPE) required for licensing in every province and territory.

Law for Professional Engineers: Canadian and Global Insights, Fifth Edition *McGraw Hill Professional*

Thoroughly revised, plain-language explanations of legal issues

that impact today's practicing engineers This fully updated guide helps engineers navigate the complicated legal issues they encounter in their work. The book focuses on Canadian engineering practices and discusses the latest international rules and regulations. Contracts, liability issues, and intellectual property and tax laws are covered in full detail. Written by a recognized expert in the field, *Law for Professional Engineers: Canadian and Global Insights*, Fifth Edition features concise, easy-to-understand explanations of the legal issues that impact engineering. You will get relevant examples from Canadian case law that demonstrate real-world applications of each legal concept. The book provides practical advice that will help engineers navigate the complexities of international projects, whether they are based in Canada, in the U.S., or anywhere else in the world. •Cuts out the legalese and explains concepts from an engineer's perspective•Includes expanded coverage of engineering ethics•Written by an expert on international construction law and dispute resolution

Practical Law of Architecture, Engineering and Geoscience

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

Canadian Professional Engineering Practice and Ethics

Saunders College Canada

Law for Professional Engineers

Landslides *Cambridge University Press*

A comprehensive, one-stop synthesis of landslide science, for researchers and graduate students in geomorphology, engineering geology and geophysics.

The Wealthy Barber

Six Degrees of Freedom *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.

Women and Geology *Geological Society of America*

Women have been a part of the story of geology from the beginning, but they have struggled to gain professional opportunities, equal pay, and respect as scientists for decades. Some have been dismissed, some have been forced to work without pay, and some have been denied credit. This volume highlights the progress of women in geology, including past struggles and how remarkable individuals were able to overcome them, current efforts to draw positive attention and perceptions to women in the science, and recruitment and mentorship efforts to attract and retain the next generation of women in geology. Chapters include the first American women researchers in Antarctica, a survey of Hollywood disaster movies and the casting of women as geologists, social media campaigns such as #365ScienceSelfies, and the stories of the Association for Women Geoscientists and the Earth Science Women's Network and their work to support and mentor women in geology.

Understanding Modern Transistors and Diodes *Cambridge University Press*

Written in a concise, easy-to-read style, this text for senior undergraduate and graduate courses covers all key topics thoroughly. It is also a useful self-study guide for practising engineers who need a complete, up-to-date review of the subject. Key features:

- Rigorous theoretical treatment combined with

- practical detail
- A theoretical framework built up systematically from the Schrödinger Wave Equation and the Boltzmann Transport Equation
- Covers MOSFETS, HBTs and HJFETS
- Uses the PSP model for MOSFETS
- Rigorous treatment of device capacitance
- Describes the operation of modern, high-performance transistors and diodes
- Evaluates the suitability of various transistor types and diodes for specific modern applications
- Covers solar cells and LEDs and their potential impact on energy generation and reduction
- Includes a chapter on nanotransistors to prepare students and professionals for the future
- Provides results of detailed numerical simulations to compare with analytical solutions
- End-of-chapter exercises
- Online lecture slides for undergraduate and graduate courses

Geoethics *Geological Society of London*

This is the second volume focused on geoethics published by the Geological Society of London. This is a significant step forward in which authors address the maturation of geoethics. The field of geoethics is now ready to be introduced outside the geoscience community as a logical platform for global ethics that addresses anthropogenic changes. Geoethics has a distinction in the geoscientific community for discussing ethical, social and cultural implications of geoscience knowledge, research, practice, education and communication. This provides a common ground for confronting ideas, experiences and proposals on how geosciences can supply additional service to society in order to improve the way humans interact responsibly with the Earth system. This book provides new messages to geoscientists, social scientists, intellectuals, law- and decision-makers, and laypeople.

Motivations and actions for facing global anthropogenic changes and their intense impacts on the planet need to be governed by an ethical framework capable of merging a solid conceptual structure with pragmatic approaches based on geoscientific knowledge. This philosophy defines geoethics.

Introduction to Professional Engineering in Canada, Fifth Canadian Edition

Introduction to Professional Engineering in Canada is intended to explain the elements of what every beginning engineering student should know about the engineering profession in Canada, emphasizing basic skills and knowledge that are well known to practicing engineers and particularly useful to students. KEY TOPICS: An Introduction to Engineering; The Licensed Professional Engineer; Professional Engineering Ethics; Engineering Societies; Learning Strategies; Technical Documents; Technical Writing Basics; Formal Technical Reports; Report Graphics; Measurements and Units; Measurement Error; Error in Computed Quantities; Basic Statistics; Gaussian Law of Errors; Fundamentals of Engineering Design; Project Management and Scheduling; Safety in Engineering Design; Safety, Risk, and the Engineer; Environmental Sustainability; The Engineer in Business; Intellectual Property MARKET: Appropriate for Introduction to Engineering Courses.

Precision Surveying John Wiley & Sons

A comprehensive overview of high precision surveying, including recent developments in geomatics and their applications This book covers advanced precision surveying techniques, their

proper use in engineering and geoscience projects, and their importance in the detailed analysis and evaluation of surveying projects. The early chapters review the fundamentals of precision surveying: the types of surveys; survey observations; standards and specifications; and accuracy assessments for angle, distance and position difference measurement systems. The book also covers network design and 3-D coordinating systems before discussing specialized topics such as structural and ground deformation monitoring techniques and analysis, mining surveys, tunneling surveys, and alignment surveys. Precision Surveying: The Principles and Geomatics Practice: Covers structural and ground deformation monitoring analysis, advanced techniques in mining and tunneling surveys, and high precision alignment of engineering structures Discusses the standards and specifications available for geomatics projects, including their representations, interpretations, relationships with quality assurance/quality control measures, and their use in geomatics projects Describes network design and simulation, including error analysis and budgeting Explains the main properties of high-precision surveys with regard to basic survey procedures and different traditional measurement techniques Analyzes survey observables such as angle, distance, elevation difference and coordinate difference measurements, and the relevant equipment, including the testing and utilization of the equipment Provides several case studies and real world examples Precision Surveying: The Principles and Geomatics Practice is written for upper undergraduate students and graduate students in the fields of surveying and geomatics. This textbook is also a resource for geomatics researchers, geomatics software

developers, and practicing surveyors and engineers interested in precision surveys.

Engineering & Geoscience - NPPE *Wpe Studio*

This book is a relatively short but comprehensive guide to professional ethics and law that is primarily intended as study material for all those who need to take the National Professional Practice Examination (NPPE). It can be used as a textbook for a one-term undergraduate course on the subject. It may also prove to be a valuable and handy reference for practicing engineering or geoscience professionals. Its text addresses the issues that have been observed with some annoyance by many candidates studying for the NPPE to become professional engineers and geoscientists. Overwhelmed by the 1300+ pages of official Study Materials? Unable to match the NPPE Syllabus to the Study Materials? Disappointed to find missing NPPE Syllabus topics from those 1300+ pages? Frustrated at having to do additional research to cover those missing topics? Having a hard time monitoring your progress? If your answers are Yes, then this book is definitely for you! 240 pages. All topics covered. No further research needed. It matches and follows the Syllabus! Having the proper study aid makes a huge difference when it comes to mastering the required concepts. While reading this book, you will know exactly how much of the NPPE Syllabus you have covered. A glance at the Table of Contents will lead you to the topic you want.

Limit States Design in Structural Steel

Ethics in Engineering Practice and Research *Cambridge University Press*

The first edition of Caroline Whitbeck's *Ethics in Engineering Practice and Research* focused on the difficult ethical problems engineers encounter in their practice and in research. In many ways, these problems are like design problems: they are complex, often ill defined; resolving them involves an iterative process of analysis and synthesis; and there can be more than one acceptable solution. In the second edition of this text, Dr Whitbeck goes above and beyond by featuring more real-life problems, stating recent scenarios and laying the foundation of ethical concepts and reasoning. This book offers a real-world, problem-centered approach to engineering ethics, using a rich collection of open-ended case studies to develop skill in recognizing and addressing ethical issues.

Scientific Integrity and Ethics in the Geosciences *John Wiley & Sons*

Science is built on trust. The assumption is that scientists will conduct their work with integrity, honesty, and a strict adherence to scientific protocols. Written by geoscientists for geoscientists, *Scientific Integrity and Ethics in the Geosciences* acquaints readers with the fundamental principles of scientific ethics and shows how they apply to everyday work in the classroom, laboratory, and field. Resources are provided throughout to help discuss and implement principles of scientific integrity and ethics. Volume highlights include: Examples of international and national codes and policies Exploration of the role of professional societies in scientific integrity and ethics References to scientific integrity

and ethics in publications and research data Discussion of science integrity, ethics, and geoethics in education Extensive coverage of data applications Scientific Integrity and Ethics in the Geosciences is a valuable resource for students, faculty, instructors, and scientists in the geosciences and beyond. It is also useful for geoscientists working in industry, government, and policymaking. Read an interview with the editors to find out more:

<https://eos.org/editors-vox/ethics-crucial-for-the-future-of-the-geosciences>

A Framework for K-12 Science Education *National Academies Press*

Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions

that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

The Changing Role of Geological Surveys *Geological Society of London*

Senior managers and Heads of Geological Survey Organizations (GSOs) from around the world have contributed a collection of papers to provide a benchmark on how GSOs are responding to national and international needs in a rapidly changing world. GSOs continue to provide key scientific information about Earth systems, natural hazards and climate change. As countries adopt sustainable development principles and the public increasingly

turns to social media to find information about resource and environmental issues, the generation and communication of Earth science knowledge become increasingly important. This volume provides a snapshot of how GSOs are adapting their activities to this changing world. The different national perspectives presented converge around several common themes related to resources, environment and big data. Climate change and the UN's Sustainable Development Goals provide an increased incentive for GSOs of the world to work in harmony, to generate knowledge of Earth systems and to provide solutions for sustainable management of the planet.

Wastewater Engineering

Development and trends in wastewater engineering; determination of sewage flowrates; hydraulics of sewers; design of sewers; sewer appurtenances and special structures; pump and pumping stations; wastewater characteristics; physical unit operations; chemical unit processes; design of facilities for physical and chemical treatment of wastewater; design of facilities for biological treatment of wastewater; design of facilities for treatment and disposal of sludge; advanced wastewater treatment; water-pollution control and effluent disposal; wastewater treatment studies.

Landslide Risk Management *CRC Press*

Landslide Risk Management comprises the proceedings of the International Conference on Landslide Risk Management, held in Vancouver, Canada, from May 31 to June 3, 2005. The first part of the book contains state-of-the-art and invited lectures, prepared

by teams of authors selected for their experience in specific topics assigned to them by the JTC-1 Committee. The second part is a selection of papers submitted to the conference, most of which serve as case-history illustrations of projects on landslide risk management. This reference work presents the current status of landslide risk management as viewed by experts from around the world.

Practical Law of Architecture, Engineering, and Geoscience

Practical Law of Architecture, Engineering, and Geoscience, 3Ce: The choice of professional engineers across Canada! Practical Law presents the most up-to-date concepts and changes in the legal field, while presenting new case studies and new coverage of topics such as Quebec law, international law, the relationship between ethics and the law, breach of confidentiality, and safety and professional liability issues related to the Criminal Code of Canada. The new third Canadian edition of Practical Law prepares students for their professional exams. The text contains the content necessary to ensure that engineers are prepared for their professional examinations and offers online practice tests to reinforce learning. It is appropriate for one-semester ethics or law classes taught in engineering, architecture, geoscience, and construction departments.

Women in the Geosciences *John Wiley & Sons*

Read an interview with the author: "Working Toward Gender Parity in the Geosciences" The geoscience workforce has a lower proportion of women compared to the general population of the

United States and compared to many other STEM fields. This volume explores issues pertaining to gender parity in the geosciences, and sheds light on some of the best practices that increase participation by women and promote parity. Volume highlights include: • Lessons learned from NSF-ADVANCE • Data on gender composition of faculty at top earth science institutions in the US • Implicit bias and gender as a social structure • Strategies for institutional change • Dual career couples • Family friendly policies • Role of mentoring • Career advancement for women • Recruiting diverse faculty • Models of institutional transformation *Women in the Geosciences* is a valuable contribution to the existing literature on gender issues in STEM disciplines. It focuses specifically on the geosciences, with a goal to spreading awareness on the best practices for gender parity in academic geoscience departments. Geoscientists, policymakers, educators and administrators could all greatly benefit from the contents of this volume.

Geology of British Columbia *Greystone Books*

This book tells the story of the province's geology and the history of its living creatures. The first edition of *Geology of British Columbia*, with its accessible but rigorous science, struck a chord with readers. Since it was first published, theories about plate tectonics and the geological history of British Columbia have evolved, and this new edition reflects the current thinking. This book also features updated content throughout, seven new maps, and a number of new photographs. A brand new appendix lists and describes key geological sites in British Columbia, adding a field-guide component to this informative book that will engage

readers and compel them to go see these rocks for themselves.

Teaching in a Digital Age

The Electrical Engineering Handbook - Six Volume Set, Third Edition *CRC Press*

In two editions spanning more than a decade, *The Electrical Engineering Handbook* stands as the definitive reference to the multidisciplinary field of electrical engineering. Our knowledge continues to grow, and so does the Handbook. For the third edition, it has grown into a set of six books carefully focused on specialized areas or fields of study. Each one represents a concise yet definitive collection of key concepts, models, and equations in its respective domain, thoughtfully gathered for convenient access. Combined, they constitute the most comprehensive, authoritative resource available. *Circuits, Signals, and Speech and Image Processing* presents all of the basic information related to electric circuits and components, analysis of circuits, the use of the Laplace transform, as well as signal, speech, and image processing using filters and algorithms. It also examines emerging areas such as text to speech synthesis, real-time processing, and embedded signal processing. *Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar* delves into the fields of electronics, integrated circuits, power electronics, optoelectronics, electromagnetics, light waves, and radar, supplying all of the basic information required for a deep understanding of each area. It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power

electronics. Sensors, Nanoscience, Biomedical Engineering, and Instruments provides thorough coverage of sensors, materials and nanoscience, instruments and measurements, and biomedical systems and devices, including all of the basic information required to thoroughly understand each area. It explores the emerging fields of sensors, nanotechnologies, and biological effects. Broadcasting and Optical Communication Technology explores communications, information theory, and devices, covering all of the basic information needed for a thorough understanding of these areas. It also examines the emerging areas of adaptive estimation and optical communication. Computers, Software Engineering, and Digital Devices examines digital and logical devices, displays, testing, software, and computers, presenting the fundamental concepts needed to ensure a thorough understanding of each field. It treats the emerging fields of programmable logic, hardware description languages, and parallel computing in detail. Systems, Controls, Embedded Systems, Energy, and Machines explores in detail the fields of energy devices, machines, and systems as well as control systems. It provides all of the fundamental concepts needed for thorough, in-depth understanding of each area and devotes special attention to the emerging area of embedded systems. Encompassing the work of the world's foremost experts in their respective specialties, The Electrical Engineering Handbook, Third Edition remains the most convenient, reliable source of information available. This edition features the latest developments, the broadest scope of coverage, and new material on nanotechnologies, fuel cells, embedded systems, and biometrics. The engineering community has relied on the

Handbook for more than twelve years, and it will continue to be a platform to launch the next wave of advancements. The Handbook's latest incarnation features a protective slipcase, which helps you stay organized without overwhelming your bookshelf. It is an attractive addition to any collection, and will help keep each volume of the Handbook as fresh as your latest research.

Introduction to Professional Engineering in Canada, Fourth Canadian Edition, Pearson Education Canada

Introduction to Professional Engineering in Canada is intended to explain the elements of what every beginning engineering student should know about the engineering profession in Canada, emphasizing basic skills and knowledge that are well known to practicing engineers and particularly useful to students.

Mechanical Design: Theory and Methodology Springer Science & Business Media

This volume, Mechanical Design: Theory and Methodology, has been put together over the past four years. Most of the work is ongoing as can be ascertained easily from the text. One can argue that this is so for any text or monograph. Any such book is only a snapshot in time, giving information about the state of knowledge of the authors when the book was compiled. The chapters have been updated and are representative of the state of the art in the field of design theory and methodology. It is barely over a decade that design as an area of study was revived, mostly at the behest of industry, government, and academic leaders. Professor Nam Suh, then the head of the Engineering

Directorate at the National Science Foundation, provided much of the impetus for the needed effort. The results of early work of researchers, many of whom have authored chapters in this book, were fundamental in conceiving the ideas behind Design for X or DFX and concurrent engineering issues. The artificial intelligence community had a strong influence in developing the required computer tools mainly because the field had a history of interdisciplinary work. Psychologists, computer scientists, and engineers worked together to understand what support tools will improve the design process. While this influence continues today, there is an increased awareness that a much broader community needs to be involved.

Lawyers' Ethics and Professional Regulation

Gender and Occupational Outcomes *Amer Psychological Assn*

"Despite concentrated research and important legislative milestones on gender equality over the past quarter-century, gender-related disparities in science, technology, and math careers persist into the 21st century. This persistence sustains a troubling state of gender inequity in which women are not sharing in the salary and status advantages attached to scientific and technical careers. In this landmark volume, editors Watt and Eccles, both well known for their research contributions in this area, compile a rich source of longitudinal analysis that places the problem in context. Experts from different countries in the fields of developmental and social psychology, human development, biology, education, and sociology draw on multi-wave longitudinal data on the gender-related variables that

influence occupational outcomes." -- book jacket.

Education and Training in Geo-Engineering Sciences *CRC Press*

In recent years the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), the International Association for Engineering Geology and Environment (IAEG), and the International Society for Rock Mechanics (ISRM) have concluded a Cooperation Agreement, leading to the foundation of the Federation of International Geo-engineering

Fundamentals of Geophysical Interpretation *SEG Books*

Includes discussions of fundamental concepts, explained using heuristic descriptions of seismic modelling, deconvolution, depth migration, and tomography; processing and contouring pitfalls; and developments in time-lapse seismology, borehole geophysics, multicomponent seismology, and integrated reservoir characterization.

Guideline for Structural Condition Assessment of Existing Buildings *Amer Society of Civil Engineers*

Changing economic conditions, concern for historic preservation, emphasis on fully utilizing conveniently located structures, space shortages, and increasing cost of materials and products used in the construction of new buildings, have resulted in a need to evaluate and more fully utilize the existing building inventory. To this end, this revision of the ASCE Standard Guideline for Structural Condition Assessment of Existing Buildings (a replacement of ASCE 11-90) provides the design community with

guidelines for assessing the structural conditions of existing buildings constructed of combinations of material including concrete, masonry, metals, and wood. It consists of an overview of preliminary and detailed assessment procedures, of materials properties and test methods, and of evaluation procedures for various physical conditions of the structure. This information has been compiled and subjected to a consensus review and approved by the ASCE Standards Committee on Structural Condition to provide a much needed resource standards on building condition assessment for selected materials, and for other areas related to the structural performance of buildings. Professional engineers, building owners, and regulatory officials will find this Standard Guideline invaluable.

How to Start and Stay Ahead in an Engineering Career in Canada *Focussedconsulting Comapny*

Rock Engineering *Inst of Civil Engineers Pub*

Ayeeyo's Golden Rule

Canadian Books in Print. Author and Title Index *University of Toronto Press*

GeoRef Thesaurus

Complete Canadian Curriculum 1 (Revised and Updated)

The Complete Canadian Curriculum series of books covers key subject areas: Math, English, Science, History, Geography and Social Studies. The curriculum-based practice units are designed to ensure that your child understands the concepts and masters the necessary skills. With vivid illustrations and interesting activities, children find working through Complete Canadian Curriculum both fun and rewarding. Inside Complete Canadian Curriculum Grade 1 workbook: Mathematics worksheets cover numbers 1 to 100, addition, subtraction, counting, money, measurement, capacity, mass, 2-D shapes, 3-D solids, directions, and temperatures. English worksheets cover consonants, vowels, rhyming words, nouns, sentences, capital letters, punctuation, verbs, adjectives, articles, and connecting words. Social Studies worksheets cover heritage and identity, people and environments, etc. Science worksheets cover my body, five senses, living things and their growth, healthful eating, safe and healthful living, objects and materials, changing materials, reuse and recycle, energy and the sun, day and night, seasons, plants through the seasons, and animals through the seasons.

Canadian Foundation Engineering Manual *The Society*