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Vision for NSF Earth Sciences 2020-2030 Deep Learning for

the Earth Sciences **Geological Engineering** *Integrating Geoscience and Engineering Data to Characterize and Exploit Tight Gas Sand Sweet Spots*, Monday, April 26, 1999, Marriott City Center, Denver, Colorado **Environmental and Engineering Geophysics** **Geology Applied to Engineering** Geology for Ground Engineering Projects *Manual of Applied Geology for Engineers* *21st European Meeting of Environmental and Engineering Geophysics* KONGRESSFOLGE Geoscience & Engineering in Energy Transition Conference *Challenges and Innovations in Geomechanics* **Geomechanics and Geology Modeling Uncertainty in the Earth Sciences** **KONGRESSFOLGE Asia Pacific Meeting on Near Surface Geoscience and Engineering** **Petroleum Geoscience** Geoscience Data and Collections **Integration of Advanced Geoscience and Engineering Techniques to Quantify Interwell Heterogeneity**

Geology Applied to Engineering bridges the gap between the two fields through its versatile application of the physical aspects of geology to engineering design and construction. The Second Edition elucidates real-world practices, concerns, and issues for today's engineering geologists and geotechnical engineers. Both undergraduate and graduate students will benefit from the book's thorough coverage, as will professionals involved in assessing sites for engineering projects, evaluating construction materials, developing water resources, and conducting tests using industry standards. West and Shakoor offer expanded coverage of important topics such as slope stability and ground subsidence and significant fields in engineering geology, such as highways, dams, tunnels, and rock blasting. In order to allow for the diverse backgrounds of geologists and engineers, material on the properties of minerals, rocks, and soil provides a working knowledge of applied geology as a springboard to more comprehensive subjects in engineering. Example problems

throughout the text demonstrate the practical applications of soil mechanics, rock weathering and soils, structural geology, groundwater, and geophysics. Thought-provoking and challenging exercises supplement core concepts such as determining shear strength and failure conditions, calculating the depth needed for borings, reading and analyzing maps, and constructing stratigraphic cross sections. 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. This volume addresses the multi-disciplinary topic of engineering geology and the environment, one of the fastest growing, most relevant and applied fields of research and study within the geosciences. It covers the fundamentals of geology and engineering where the two fields overlap and, in addition, highlights specialized topics that address principles, concepts and paradigms of the discipline,

including operational terms, materials, tools, techniques and methods as well as processes, procedures and implications. A number of well known and respected international experts contributed to this authoritative volume, thereby ensuring proper geographic representation, professional credibility and reliability. This superb volume provides a dependable and ready source of information on approximately 300 topical entries relevant to all aspects of engineering geology. Extensive illustrations, figures, images, tables and detailed bibliographic citations ensure that the comprehensively defined contributions are broadly and clearly explained. The Encyclopedia of Engineering Geology provides a ready source of reference for several fields of study and practice including civil engineers, geologists, physical geographers, architects, hazards specialists, hydrologists, geotechnicians, geophysicists, geomorphologists, planners, resource explorers, and many others. As a key library reference, this book is an essential technical source for undergraduate and graduate students in their research. Teachers/professors can rely on it as the final authority and the first source of reference on engineering geology related studies as it provides an exceptional resource to train and educate the next generation of practitioners. Developments in Engineering Geology is a showcase of the diversity in the science and practice of engineering geology. All branches of geology are applicable to solving engineering problems and this presents a wide frontier of scientific opportunity to engineering geology. In practice, diversity represents a different set of challenges with the distinctive character of the profession derived from the crossover between the disciplines of geology and engineering. This book emphasizes the importance of understanding the geological science behind the engineering behaviour of a soil or rock. It also highlights a continuing expansion in the practice areas of engineering geology and illustrates how this is opening new frontiers to the profession thereby introducing new knowledge

and technology across a range of applications. This is initiating an evolution in the way geology is modelled in engineering, geohazard and environmental studies in modern and traditional areas of engineering geology. This book highlights the fundamental and applied aspects of geoscience that an engineer and geologist would need to be effective in the upstream petroleum industry. Geoscience is integral to exploration and production of petroleum, and a good understanding of the subject enables petroleum engineers to execute their tasks effectively in an interdisciplinary and collaborative environment. Most petroleum engineers lack a geological perspective, owing to their increased focus on core engineering disciplines, and evaluate rocks from a mechanical object. At the same time, books in geoscience which are currently available for undergraduate education are written for educating geologists only. This book aims to provide geoscience fundamentals as required by engineers and geologists to prepare for a career in the upstream petroleum industry. In this second, enlarged edition the author continues to emphasise aspects of rock mechanics. Firm in his belief that there is no better way to study the subject than by the detailed analysis of case histories, Dr Jaeger has incorporated a number of new ones. Geopressure, or excess pore pressure in subsurface rock formations that is higher than the hydrostatic pressure, is a worldwide phenomenon which impacts hydrocarbon resource estimation, drilling and drilling safety in operations. This book provides a comprehensive overview of geopressure analysis bringing together rock physics, seismic technology, quantitative basin modeling and geomechanics. It provides a fundamental physical and geological basis for understanding geopressure by explaining the coupled mechanical and thermal processes. It also brings together state-of-the-art tools and technologies for analysis and detection of geopressure, along with the associated uncertainty. Prediction and detection of shallow geohazards and gas hydrates is also discussed and field examples are used to

illustrate how models can be practically applied. With supplementary MATLAB® codes and exercises available online, this is an ideal resource for students, researchers and industry professionals in geoscience and petroleum engineering looking to understand and analyse subsurface formation pressure. Here is a basic introduction to Lattice Boltzmann models that emphasizes intuition and simplistic conceptualization of processes, while avoiding the complex mathematics that underlies LB models. The model is viewed from a particle perspective where collisions, streaming, and particle-particle/particle-surface interactions constitute the entire conceptual framework. Beginners and those whose interest is in model application over detailed mathematics will find this a powerful 'quick start' guide. Example simulations, exercises, and computer codes are included. All engineering structures react with the ground, and most structures make use of materials extracted from the earth. While an engineer cannot be expected to be also an expert geologist, he must have a working knowledge of the subject if his structures are to be economically designed, safely built and safely used. He must also be able to recognise where and when he needs the advice of a specialist. A Manual of Applied Geology is designed as a guide for practising engineers. A team of distinguished engineers and scientists has been assembled to present the basic information which an engineer needs and to explain how best to use this information to deal with problems in his work. Chapters cover general theory, Formation of rocks, their properties and identification, landforms and soils, geophysical methods, maps and other information sources. the particular problems of terrain evaluation, site selection and investigation and common construction problems (including groundwater control, stability, foundations and underground work) are examined and there are chapters on materials and hydrogeology. Aimed principally at the engineer who is meeting geological problems in his everyday work, this generously illustrated volume will also be useful as an

introduction to the subject for first degree engineering students

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. This volume brings together a number of papers from two workshops with the theme, 'Rain, Rivers, Reservoirs', which considered the dynamic changes to river systems as part of natural processes, particularly changing climatic conditions. Bringing researchers from two different locations to Brazil and the UK allowed scientists to contribute to and promote, 'debate on current research...on how the planet works and how we can live sustainably on it'. This volume features a series of papers on the geoscience of modern and ancient rivers from across the world (Brazil, United States, Spain, Argentina, Canada, India and the UK), their evolution through time, their management, their deposits and their engineering, with both subsurface aquifers/hydrocarbon reservoirs (of Carboniferous, Triassic and Cretaceous age) and surface reservoirs considered. This book gathers the latest advances, innovations, and applications in the field of computational geomechanics, as presented by international researchers and engineers at the 16th International Conference of the International Association for Computer Methods and Advances in Geomechanics (IACMAG 2020/21). Contributions include a wide range of topics in geomechanics such as: monitoring and remote sensing, multiphase modelling, reliability and risk analysis, surface structures, deep structures, dams and earth structures, coastal engineering, mining engineering,

earthquake and dynamics, soil-atmosphere interaction, ice mechanics, landfills and waste disposal, gas and petroleum engineering, geothermal energy, offshore technology, energy geostructures, geomechanical numerical models and computational rail geotechnics. This advanced undergraduate textbook comprehensively describes principal geophysical surveying techniques for environmental and engineering problems. 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

Geomechanics investigates the origin, magnitude and deformational consequences of stresses in the crust. In recent years awareness of geomechanical processes has been heightened by societal debates on fracking, human-induced seismicity, natural geohazards and safety issues with respect to petroleum exploration drilling, carbon sequestration and radioactive waste disposal. This volume explores the common ground linking geomechanics with inter alia economic and petroleum geology, structural geology, petrophysics, seismology, geotechnics, reservoir engineering and production technology. Geomechanics is a rapidly developing field that brings together a broad range of subsurface professionals seeking to use their

expertise to solve current challenges in applied and fundamental geoscience. A rich diversity of case studies herein showcase applications of geomechanics to hydrocarbon exploration and field development, natural and artificial geohazards, reservoir stimulation, contemporary tectonics and subsurface fluid flow. These papers provide a representative snapshot of the exciting state of geomechanics and establish it firmly as a flourishing subdiscipline of geology that merits broadest exposure across the academic and corporate geosciences. Introduces the fundamental principles of applied Earth science needed for engineering practice, with case studies, exercises, and online solutions. Bridges the Gap between Geology and Ground Engineering High-quality geological models are crucial for ground engineering projects, but many engineers are not always at ease with the geological terminology and analysis presented in these models, nor with their implications and limitations. Project engineers need to have a sound comprehension of the geological models presented to them, and to be able to discuss the models in so far as they might impinge on the design, safety and possible budgetary or time constraints of the project. They should also fully understand how site investigation data and samples are used to develop and substantiate geological models. Geology for Ground Engineering Projects provides a comprehensive presentation of, and insight into, the critical geological phenomena that may be encountered in many engineering projects, for example rock contact relationships, weathering and karst phenomena in tropical areas, composition of fault zones and variability of rock discontinuities. Examples are provided from around the world, including Southeast Asia, Europe, North and South America, China and India. Comprehensive and well-illustrated, this definitive book: Describes the important geological phenomena that could affect ground engineering projects Provides a practical knowledge-base for relevant geological processes Addresses common geological issues and

concerns Rocks are described in relation to the environment of their formation, highlighting the variation in composition, distribution and geotechnical properties that can be expected within a variety of rock associations. Case studies, where geology has been a vital factor, are included. These are written by the project engineers or geologists responsible for the projects. Geology for Ground Engineering Projects is well illustrated with color diagrams and photographs. Readers are directed to satellite images of selected areas to explore for themselves many of the geological features described in this book. Modeling Uncertainty in the Earth Sciences highlights the various issues, techniques and practical modeling tools available for modeling the uncertainty of complex Earth systems and the impact that it has on practical situations. The aim of the book is to provide an introductory overview which covers a broad range of tried-and-tested tools. Descriptions of concepts, philosophies, challenges, methodologies and workflows give the reader an understanding of the best way to make decisions under uncertainty for Earth Science problems. The book covers key issues such as: Spatial and time aspect; large complexity and dimensionality; computation power; costs of 'engineering' the Earth; uncertainty in the modeling and decision process. Focusing on reliable and practical methods this book provides an invaluable primer for the complex area of decision making with uncertainty in the Earth Sciences. Petroleum Geoscience is a comprehensive introduction to the application of geology and geophysics to the search for and production of oil and gas. Uniquely, this book is structured to reflect the sequential and cyclical processes of exploration, appraisal, development and production. Chapters dedicated to each of these aspects are further illustrated by case histories drawn from the authors' experiences. Petroleum Geoscience has a global and 'geo-temporal' backdrop, drawing examples and case histories from around the world and from petroleum systems ranging in age from late-Pre-Cambrian to Pliocene. In order to

show how geoscience is integrated at all levels within the industry, the authors stress throughout the links between geology and geophysics on the one hand, and drilling, reservoir engineering, petrophysics, petroleum engineering, facilities design, and health, safety and the environment on the other. Petroleum Geoscience is designed as a practical guide, with the basic theory augmented by case studies from a wide spread of geographical locations. Covers all the key aspects of the origin of petroleum, exploration, and production. It takes account of the modern emphasis on the efficient utilisation of reserves, on new methods in exploration (such as 3-D seismics). Book takes 'value-chain' approach to Petroleum Geoscience. First new text on petroleum geology for geology undergraduates to be published in the last ten years. Packed full of real-life case studies from Petroleum industry. This book presents the proceedings of the 3rd International Conference on Integrated Petroleum Engineering and Geosciences 2014 (ICIPEG2014). Topics covered on the petroleum engineering side include reservoir modeling and simulation, enhanced oil recovery, unconventional oil and gas reservoirs, production and operation. Similarly geoscience presentations cover diverse areas in geology, geophysics palaeontology and geochemistry. The selected papers focus on current interests in petroleum engineering and geoscience. This book will be a bridge between engineers, geoscientists, academicians and industry. Sustainable Geoscience for Natural Gas SubSurface Systems delivers many of the scientific fundamentals needed in the natural gas industry, including coal-seam gas reservoir characterization and fracture analysis modeling for shale and tight gas reservoirs. Advanced research includes machine learning applications for well log and facies analysis, 3D gas property geological modeling, and X-ray CT scanning to reduce environmental hazards. Supported by corporate and academic contributors, along with two well-distinguished editors, the book gives today's natural gas

engineers both fundamentals and advances in a convenient resource, with a zero-carbon future in mind. Includes structured case studies to illustrate how new principles can be applied in practical situations Helps readers understand advanced topics, including machine learning applications to optimize predictions, controls and improve knowledge-based applications Provides tactics to accelerate emission reductions Teaches gas fracturing mechanics aimed at reducing environmental impacts, along with enhanced oil recovery technologies that capture carbon dioxide "Eighteen chapters address the complex yet critical aspects of the role of geosciences in military undertakings. The chapters cover a wide range of expertise drawn from the broad area of geology, geomorphology, geography, geophysics, engineering geology, hydrogeology, cartography, environmental science, remote sensing, soil science, geoinformatics, and related disciplines that reflect the multidisciplinary nature of military geology"--

Geoscience data and collections (such as, rock and sediment cores, geophysical data, engineering records, and fossils) are necessary for industries to discover and develop domestic natural resources to fulfill the nation's energy and mineral requirements and to improve the prediction of immediate and long term hazards, such as land slides, volcanic eruptions and global climate change. While the nation has assembled a wealth of geoscience data and collections, their utility remains incompletely tapped. Many could act as invaluable resources in the future but immediate action is needed if they are to remain available. Housing of and access to geoscience data and collections have become critical issues for industry, federal and state agencies, museums, and universities. Many resources are in imminent danger of being lost through mismanagement, neglect, or disposal. A striking 46 percent of the state geological surveys polled by the committee reported that there is no space available or they have refused to accept new material. In order to address these challenges, Geoscience Data and Collections offers a

comprehensive strategy for managing geoscience data and collections in the United States. 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. Today's engineering and geoscience student needs to know more than how to design a new or remedial project or facility. Questions of law and ambiguities of terms often occur in contracts for mining, landfills, site reclamation, waste depositories, clean up sites, land leases, operating agreements, joint ventures, and other projects. Work place situations arise where environmental compliance methods are challenged by enforcement agencies. Although the statutes, rules, and regulations may seem to be worded clearly and specifically, there are often questions in application and sometimes varied interpretations. Environmental Law for Engineers and Geoscientists introduces simplified American jurisprudence focusing on the legal system, its courts, terms, phrases, administrative law, and regulation by the agencies that administer environmental law. The book comprehensively covers the "big five" environmental statutes: NEPA, CAA, CWA, CERCLA, and RCRA. With the basic law chapter as a foundation, the book covers the practical applications of environmental law for ge-engineers. It concludes with a chapter on the growing area of

expert witnessing and admissible evidence in environmental litigation — an area of law where success or failure increasingly depends on the exacting preparation and presentation of expert scientific evidence. Written by a professional mining and geological engineer and a practicing attorney, *Environmental Law for Engineers and Geoscientists* prepares students for the numerous environmental regulatory encounters they can expect when dealing with various statutes, laws, regulations, and agency rules that govern, affect, and apply to environmental engineering projects. It provides a working knowledge of how to judge whether or not a project is in compliance with regulations, and how to ensure that it is. 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

The Earth system functions and connects in unexpected ways - from the microscopic interactions of bacteria and rocks to the macro-scale processes that build and erode mountains and regulate Earth's climate. Efforts to study Earth's intertwined processes are made

even more pertinent and urgent by the need to understand how the Earth can continue to sustain both civilization and the planet's biodiversity. A Vision for NSF Earth Sciences 2020-2030: Earth in Time provides recommendations to help the National Science Foundation plan and support the next decade of Earth science research, focusing on research priorities, infrastructure and facilities, and partnerships. This report presents a compelling and vibrant vision of the future of Earth science research. Steve Hencher presents a broad and fresh view on the importance of engineering geology to civil engineering projects. Practical Engineering Geology provides an introduction to the way that projects are managed, designed and constructed and the ways that the engineering geologist can contribute to cost-effective and safe project achievement. The need for a thorough knowledge of geology is essential in the design and construction of infrastructures for transport, buildings and mining operations; while an understanding of geology is also crucial for those working in urban, territorial and environmental planning and in the prevention and mitigation of geohazards. Geological Engineering provides an interpretation of the geological setting, integrating geological conditions into engineering design and construction, and provides engineering solutions that take into account both ground conditions and environment. This textbook, extensively illustrated with working examples and a wealth of graphics, covers the subject area of geological engineering in four sections: Fundamentals: soil mechanics, rock mechanics and hydrogeology Methods: site investigations, rock mass characterization and engineering geological mapping Applications: foundations, slope stability, tunnelling, dams and reservoirs and earth works Geohazards: landslides, other mass movements, earthquake hazards and prevention and mitigation of geological hazards As well as being a textbook for graduate and postgraduate students and academics, Geological Engineering serves as a basic reference for practicing engineering geologists

and geological and geotechnical engineers, as well as civil and mining engineers dealing with design and construction of foundations, earth works and excavations for infrastructures, buildings, and mining operations. The Engineering Group of the Geological Society Working Party brought together experts in glacial and periglacial geomorphology, Quaternary history, engineering geology and geotechnical engineering to establish best practice when working in former glaciated and periglaciated environments. The Working Party addressed outdated terminology and reviewed the latest academic research to provide an up-to-date understanding of glaciated and periglaciated terrains. This transformative, state-of-the-art volume is the outcome of five years of deliberation and synthesis by the Working Party. This is an essential reference text for practitioners, students and academics working in these challenging ground conditions. The narrative style, and a comprehensive glossary and photo-catalogue of active and relict sediments, structures and landforms make this material relevant and accessible to a wide readership.

DEEP LEARNING FOR THE EARTH SCIENCES Explore this insightful treatment of deep learning in the field of earth sciences, from four leading voices

Deep learning is a fundamental technique in modern Artificial Intelligence and is being applied to disciplines across the scientific spectrum; earth science is no exception. Yet, the link between deep learning and Earth sciences has only recently entered academic curricula and thus has not yet proliferated. *Deep Learning for the Earth Sciences* delivers a unique perspective and treatment of the concepts, skills, and practices necessary to quickly become familiar with the application of deep learning techniques to the Earth sciences. The book prepares readers to be ready to use the technologies and principles described in their own research. The distinguished editors have also included resources that explain and provide new ideas and recommendations for new research especially useful to those

involved in advanced research education or those seeking PhD thesis orientations. Readers will also benefit from the inclusion of:

- An introduction to deep learning for classification purposes, including advances in image segmentation and encoding priors, anomaly detection and target detection, and domain adaptation
- An exploration of learning representations and unsupervised deep learning, including deep learning image fusion, image retrieval, and matching and co-registration
- Practical discussions of regression, fitting, parameter retrieval, forecasting and interpolation
- An examination of physics-aware deep learning models, including emulation of complex codes and model parametrizations

Perfect for PhD students and researchers in the fields of geosciences, image processing, remote sensing, electrical engineering and computer science, and machine learning, *Deep Learning for the Earth Sciences* will also earn a place in the libraries of machine learning and pattern recognition researchers, engineers, and scientists.

Geology is the science of earth's crust (lithosphere) consisting of rocks and soils. While mining and mineralogical engineers are more interested in rocks, their petrology (formation) and mineralogy, civil engineers are equally interested in soils and rocks, in their formations, and also in their properties for civil engineering design and construction. This book is so written that the subject can easily be taught by a civil engineering faculty member specialised in soil mechanics.

Dexterously organized into four parts, this book in Part I (Chapters 1 to 11) deals with the formation of rocks and soils. The classification of soils, lake deposits, coastal deposits, wind deposits along with marshes and bogs are described in Part II (Chapters 12 to 20). As the book advances, it deals with the civil engineering problems connected with soils and rocks such as landslides, rock slides, mudflow, earthquakes, tsunami and other natural phenomena in Part III (Chapters 21 to 24). Finally, in Part IV (Chapters 25 to 30), this text discusses the allied subjects like the origin and nature of cyclones, rock mass classification and soil

formation. Designed to serve as a textbook for the undergraduate students of civil engineering, this book is equally useful for the practising civil engineers. SALIENT FEATURES : Displays plenty of figures to clarify the concepts Includes chapter-end review exercises to enhance the problem-solving skills of the students Summary at the end of each chapter brings into focus the essence of the chapter Appendices at the end of the text supply extra information on important topics

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