

Mining Engineering Unsw Handbook

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Day in the Life of a Mining Engineer - Canada GATE Mining Engineering (MN) Preparation Tips and Books

This third edition of the SME Mining Engineering Handbook reaffirms its international reputation as "the handbook of choice" for today's practicing mining engineer. It distills the body of knowledge that characterizes mining engineering as a disciplinary field and has subsequently helped to inspire and inform generations of mining professionals. Virtually all of the information is original content, representing the latest information from more than 250 internationally recognized mining industry experts. Within the handbook's 115 thought-provoking chapters are current topics relevant to today's mining professional: Analyzing how the mining and minerals industry will develop over the medium and long term--why such changes are inevitable, what this will mean in terms of challenges, and how they could be managed Explaining the mechanics associated with the multifaceted world of mine and mineral economics, from the decisions associated with how best to finance a single piece of high-value equipment to the long-term cash-flow issues associated with mine planning at a mature operation Describing the recent and ongoing technical initiatives and engineering developments in relation to robotics, automation, acid rock drainage, block caving optimization, or process dewatering methods Examining in detail the methods and equipment available to achieve efficient, predictable, and safe rock breaking, whether employing a tunnel boring machine for development work, mineral extraction using a mobile miner, or cast blasting at a surface coal operation Identifying the salient points that dictate which is the safest, most efficient, and most versatile extraction method to employ, as well as describing in detail how each alternative is engineered Discussing the impacts that social and environmental issues have on mining from the pre-exploration phase to end-of-mine issues and beyond, and how to manage these two increasingly important factors to the benefit of both the mining companies and other stakeholders

This book presents a broad range of deep-learning applications related to vision, natural language processing, gene expression, arbitrary object recognition, driverless cars, semantic image segmentation, deep visual residual abstraction, brain-computer interfaces, big data processing, hierarchical deep learning networks as game-playing artefacts using regret matching, and building GPU-accelerated deep learning frameworks. Deep learning, an advanced level of machine learning technique that combines class of learning algorithms with the use of many layers of nonlinear units, has gained considerable attention in recent times. Unlike other books on the market, this volume addresses the challenges of deep learning implementation, computation time, and the complexity of reasoning and modeling different type of data. As such, it is a valuable and comprehensive resource for engineers, researchers, graduate students and Ph.D. scholars.

Handbook of Neural Computation explores neural computation applications, ranging from conventional fields of mechanical and civil engineering, to electronics, electrical engineering and computer science. This book covers the numerous applications of artificial and deep neural networks and their uses in learning machines, including image and speech recognition, natural language processing and risk analysis. Edited by renowned authorities in this field, this work is comprised of articles from reputable industry and academic scholars and experts from around the world. Each contributor presents a specific research issue with its recent and future trends. As the demand rises in the engineering and medical industries for neural networks and other machine learning methods to solve different types of operations, such as data prediction, classification of images, analysis of big data, and intelligent decision-making, this book provides readers with the latest, cutting-edge research in one comprehensive text. Features high-quality research articles on multivariate adaptive regression splines, the minimax probability machine, and more Discusses machine learning techniques, including classification, clustering, regression, web mining, information retrieval and natural language processing Covers supervised, unsupervised, reinforced, ensemble, and nature-inspired learning methods

The business ecosystem within Asia is undergoing a transformation post COVID-19. Green issues, inclusion, and strategic disruptors in companies and economies have become rising topics in Asian businesses, causing such a change. This has the potential to be an evolution for Asian businesses, creating new business models for economic growth in Asia. The Handbook of Research on Big Data, Green Growth, and Technology Disruption in Asian Companies and Societies presents a rich collection of chapters exploring and discussing the emerging topics, challenges, and success factors in business, big data, innovation, and technology in Asia. This book will explore the changes made in the transition towards greener and sustainable societies and economies. Covering topics including information technologies, open innovation, and green issues, this book is essential for researchers, academicians,

students, politicians, policymakers, corporate heads of firms, senior general managers, managing directors, information technology directors and managers, and libraries.

As the world becomes increasingly complex, so do the statistical models required to analyse the challenging problems ahead. For the very first time in a single volume, the Handbook of Approximate Bayesian Computation (ABC) presents an extensive overview of the theory, practice and application of ABC methods. These simple, but powerful statistical techniques, take Bayesian statistics beyond the need to specify overly simplified models, to the setting where the model is defined only as a process that generates data. This process can be arbitrarily complex, to the point where standard Bayesian techniques based on working with tractable likelihood functions would not be viable. ABC methods finesse the problem of model complexity within the Bayesian framework by exploiting modern computational power, thereby permitting approximate Bayesian analyses of models that would otherwise be impossible to implement. The Handbook of ABC provides illuminating insight into the world of Bayesian modelling for intractable models for both experts and newcomers alike. It is an essential reference book for anyone interested in learning about and implementing ABC techniques to analyse complex models in the modern world.

Sure, everyone gets sick sometimes, but do you realize that plenty of those folks also die slow, unpleasant deaths from diseases that stumped even the experts at top-notch (still privately run) hospitals? That's right: There are plenty of illnesses that even physicians have never heard about. Nodding Disease, Alice in Wonderland Syndrome, and Cutaneous Horn (yes, you grow a horn) are all featured here in pithy, energetic entries. You won't have to worry about socialized medicine if you have this book—even if your doc could see you within a month, you might die due to his ignorance. Lucky for you and your loved ones, Ian Landau (who has no medical training but is a hell of a researcher) includes: Descriptions of each disease Background and history How to diagnose yourself and others Suggested treatments Prevention methods The book is not for the faint of heart, as it probably could cause cardiac arrest. (And you ain't coming back from that without Ian's help.)

As the publishing, film and music industries are dominated by Big Media conglomerates, there is often recourse to simplistic ideological and conspiratorial readings of industry dynamics. Copyright, Creativity, Big Media & Cultural Value: Incorporating the Author explains why copyright is much more than a creator's private property right or a mechanism through which corporations control cultural production and influence mass consumption choices. The volume is grounded in extensive, painstakingly detailed and colourful original archival research into business histories of major successful artists including Conan Doyle, Hall Caine, Margaret Atwood, Dame Nellie Melba, Radiohead and Banksy, and the industries and genres that grew up around their activities. Chapters address big questions about how copyright generates income and how distributions of profits are allocated in the publishing, film and music industries. It includes discussion of the creation of new formats, the interplay between old media and new technologies, international copyright reform and cross-industry relations. Copyright, Creativity, Big Media & Cultural Value is a wide-ranging and important resource for students and practitioners of law and policy, media studies, cultural studies and literary history.

The Regulatory Technology Handbook The transformational potential of RegTech has been confirmed in recent years with US\$1.2 billion invested in start-ups (2017) and an expected additional spending of US\$100 billion by 2020. Regulatory technology will not only provide efficiency gains for compliance and reporting functions, it will radically change market structure and supervision. This book, the first of its kind, is providing a comprehensive and invaluable source of information aimed at corporates, regulators, compliance professionals, start-ups and policy makers. The REGTECH Book brings into a single volume the curated industry expertise delivered by subject matter experts. It serves as a single reference point to understand the RegTech eco-system and its impact on the industry. Readers will learn foundational notions such as: • The economic impact of digitization and datafication of regulation • How new technologies (Artificial Intelligence, Blockchain) are applied to compliance • Business use cases of RegTech for cost-reduction and new product origination • The future regulatory landscape affecting financial institutions, technology companies and other industries Edited by world-class academics and written by compliance professionals, regulators, entrepreneurs and business leaders, the RegTech Book represents an invaluable resource that paves the way for 21st century regulatory innovation.

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