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*Data Analytics Applied to the
Mining Industry describes the
key challenges facing the
mining sector as it transforms*

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into a digital industry able to fully exploit process automation, remote operation centers, autonomous equipment and the opportunities offered by the industrial internet of things. It

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provides guidelines on how data needs to be collected, stored and managed to enable the different advanced data analytics methods to be applied effectively in practice, through use of case studies,

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and worked examples. Aimed at graduate students, researchers, and professionals in the industry of mining engineering, this book: Explains how to implement advanced data analytics

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through case studies and examples in mining engineering Provides approaches and methods to improve data-driven decision making Explains a concise overview of the state of the art

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for Mining Executives and Managers Highlights and describes critical opportunity areas for mining optimization Brings experience and learning in digital transformation from adjacent sectors

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Volume 2 of the Handbook covers the geotechnical procedures used in manufacturing anchors and piles as well as for improving or underpinning foundations, securing existing

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constructions, controlling ground water, excavating rocks and earth works. It also treats such specialist areas as the use of geotextiles and seeding. This book presents a state-of-the-art analysis of energy

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efficiency as applied to mining processes. From ground fragmentation to mineral processing and extractive metallurgy, experts discuss the current state of knowledge and the nagging questions that call

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for further research. It offers an excellent resource for all mine managers and engineers who want to improve energy efficiency to boost both production efficiency and sustainability. It will also

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benefit graduate students and experienced researchers looking for a comprehensive review of the current state of knowledge concerning energy efficiency in the minerals industry.

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Open Pit Mine Planning and Design, Two Volume Set & CD-ROM Pack

*Methods, Techniques and Equipment
Advances in Production*

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Management Systems.

Towards Smart and Digital

Manufacturing

Caterpillar Performance

Handbook

Cincinnati/Northern Kentucky

International Airport, Section

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303c Evaluation

An important guide to the quantification of contract claims in the construction industry, updated third edition The substantially expanded third edition of

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Evaluating Contract Claims puts the spotlight on the quantification of claims in the construction industry after liability has been established, including by reference to

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the terms of several standard forms of contract in common use. The authors clearly demonstrate the potential alternative approaches to quantification, the

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processes, principles and standard of analysis required to produce acceptable claims for additional payment. The third edition covers a number of heads claims not

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considered in previous editions and offers an important guide for those working with building or engineering contracts. Evaluating Contract Claims explains in detail how the

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base from which evaluation of additional payments may be established, the effect of changes on the programme of work and the sources of information for evaluation of additional

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payments. The book also contains information for evaluating the direct consequences of change in terms of the impact on unit rates, and evaluating of the time consequences

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*of change in terms of
prolongation, disruption,
acceleration and more.*

*This important book:
Concentrates on the
quantification of contract
claims after liability has*

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been established Offers a guide that is appropriate for any form of contract Considers the potential alternative approaches to quantification of different heads of claim

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Contains the principles and methods that should be reflected in the evaluation of claim quantum Includes the standard of substantiation which may be required

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Presents information that is equally applicable in both building and engineering disputes Is substantially expanded from its previous editions Written for construction

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and engineering contract administrators, project managers, quantity surveyors and contract consultants, Evaluating Contract Claims offers a revised third edition to

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the essential guide for quantifying claims in the construction industry once liability has been established.

This revised and updated edition of Construction

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Equipment Management fills a gap on this subject by integrating both conceptual and hands-on quantitative knowledge on construction equipment into a process that

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facilitates student learning. The first six chapters summarize interdisciplinary concepts that are necessary to ground students' learning on construction equipment

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management, including both engineering and economics. Each of the next 16 chapters covers a different type of construction equipment and associated methods of use.

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The final chapter introduces the more advanced concept of operation analysis. This allows the book to be used on numerous courses at different levels to

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prepare graduates to apply skills on construction equipment when planning for a new project, estimating its costs, and monitoring field operations. Organized

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around the major categories of construction equipment, including both commercial and heavy civil examples, case studies, and exercises, this textbook will help

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students develop independence in applying concepts to hands-on scenarios. A companion website provides an instructor manual, solutions, additional

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examples, lecture slides, figures, and diagrams.

In Yellow Steel, the first overarching history of the earthmoving equipment industry, William Haycraft examines the tremendous

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increase in the scope of mining and construction projects, from the Suez Canal through the interstate highway system, made possible by innovations in earthmoving

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machinery. Led by Cyrus McCormick's invention in 1831 of a practical mechanical reaper, many of the builders of today's massive earthmoving machines began as makers

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of reapers, plows, threshers, and combines. Haycraft traces the efforts of manufacturers such as Caterpillar, Allis-Chalmers, International Harvester, J. I. Case,

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Deere, and Massey-Ferguson to diversify from farm equipment to specialized earthmoving equipment and the important contributions of LeTourneau, Euclid, and

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others in meeting the needs of the construction and mining industries. He shows how postwar economic and political events, especially the creation of the interstate highway

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system, spurred the development of more powerful and more agile machines. He also relates the precipitous fall of several major American earthmoving machine

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companies and the rise of Japanese competitors in the early 1980s.

Extensively illustrated and packed with detailed information on both manufacturers and

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machines, Yellow Steel knits together the diverse stories of the many companies that created the earthmoving equipment industry--how they began, expanded, retooled,

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merged, succeeded, and sometimes failed. Their history, a step-by-step linking of need and invention, provides the foundation for virtually all modern transportation,

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*construction, commerce,
and industry.*

*Evaluating Contract Claims
area coal availability
studies*

*Energy Efficiency in the
Minerals Industry*

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The Permaculture

Earthworks Handbook

Rock Slope Engineering,

Fourth Edition

Best Practices and

Research Directions

The second part of the Geotechnical

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Engineering Handbook is dealing with the geotechnical procedures and their methods of global analysis and analytical procedures: Soil engineering, ground improvement, injection- and anchorage methods, driving and drilling, damp-proofing and

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waterproofing of structures, soil freezing, ground water lowering up to engineering-biological methods of slope protection.

This book provides a comprehensive analysis of the exploitation process of shovel-truck systems using modelling,

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analysis and calculations following specific procedures:- analyzing the reliability and accessibility of shovels- discussing the functioning of a truck-repair shop system- reliability of trucks- existence of haulers reserve- repair shop

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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

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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

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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

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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

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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

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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,

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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

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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

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and other stakeholders

Costs of Strip Mine Reclamation in the West

Handbook of Energy Utilization In Agriculture

Data Analytics Applied to the Mining Industry

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A Comparison of Metropolitan and Nonmetropolitan Areas

Surface and Underground Excavations
Combined Heating, Cooling & Power
Handbook

Maximize your water harvesting potential with efficient, cost-

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effective earthworks In the face of drought and desertification, well-designed, water harvesting earthworks such as swales, ponds, and dams are the most effective way to channel water into productive use. The result can be

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increased food production, higher groundwater levels, reduced irrigation needs, and enhanced ecosystem resilience. Yet, due to a lack of knowledge, designers, and landowners often build earthworks that are costly, inappropriately

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sized and sited, or even dangerous. The Permaculture Earthworks Handbook is the first dedicated, detailed guide to the proper design and construction of water harvesting earthworks. It covers the function, design, and

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construction methods for nine main types of water harvesting earthworks across a full range of climates. Coverage includes: Swales, ponds, dams, hugelkultur, net-and-pan systems, spate irrigation, and more Cost versus

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*benefit of different earthworks
Assessing site needs and
suitability Soil types and hydrology
Designing for maximum efficiency
and lowest cost Risk assessment
and safe construction Stacking
functions and integrating*

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earthworks into a design This practical handbook is the essential resource for permaculture designers, teachers and students, landowners, farmers, homesteaders, landscape architects, and others involved in

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maximizing the water harvesting potential of any landscape at the lowest cost and impact. Douglas Barnes is a permaculture designer trained in Australia by Bill Mollison and Geoff Lawton. He has designed and built earthworks in

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North America, Japan, and Andhra Pradesh, India. He lives in Tweed, Ontario in a passive solar house he designed and built, and he blogs at permaculturerelections.com. Confirm adverse effects with the only source for practicing

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dermatologists, pharmacists and clinicians devoted to newly approved, commonly prescribed, and over-the-counter drugs including herbals and supplements. With an alphabetic listing of more than 7,000 drugs,

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herbals and supplements combined, Litt's is the dermatologist's number one choice for drug eruption data. Every practicing environmental engineer should already have a firm grasp on the basics of

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*hazardous waste site remediation-
the key to confronting a site
problem, and devising an effective
solution. Since their original
introduction to remediation,
technology has kept moving ahead
with new ideas and procedures.*

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Fundamentals of Hazardous Waste Site Remediation gives environmental professionals immediate access to the basics of the trade, along with information about recent advancements. This comprehensive overview

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examines the basics of such areas as hazardous materials chemistry, hydrogeology, reaction engineering, and clean-up level development. A chapter on Cost Estimating will be of particular interest to specialists, in light of

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recent concerns about the increased costs of remediation. After reading each chapter, test your new knowledge with the review problems. As a refresher guide for career environmental engineers, or a helpful tool to

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newcomers in the field, Fundamentals of Hazardous Waste Site Remediation is a valuable resource for longtime professionals and newcomers alike.

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Site Remediation

Technologies & Applications,

Second Edition

Federal Outlays in Fiscal 1978

Building Stone, Rock Fill and

Armourstone in Construction

IFIP WG 5.7 International

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Conference, APMS 2020, Novi Sad, Serbia, August 30 - September 3, 2020, Proceedings, Part II
37th U.S. Symposium on Rock Mechanics

The rapid introduction of sophisticated computers,

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services, telecommunications systems, and manufacturing systems has caused a major shift in the way people use and work with technology. It is not surprising that computer-aided modeling has emerged as a promising method for ensuring

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products meet the requirements of the consumer. The Handbook of Digital Human Modeling provides comprehensive coverage of the theory, tools, and methods to effectively achieve this objective. The 56 chapters in this book, written by 113

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contributing authorities from Canada, China, France, Germany, the Netherlands, Poland, Sweden, Taiwan, UK, and the US, provide a wealth of international knowledge and guidelines. They cover applications in advanced manufacturing, aerospace,

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automotive, data visualization and simulation, defense and military systems, design for impaired mobility, healthcare and medicine, information systems, and product design. The text elucidates tools to help evaluate product and work design while

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reducing the need for physical prototyping. Additional software and demonstration materials on the CRC Press web site include a never-before-released 220-page step-by-step UGS-Siemens JackTM help manual developed at Purdue University. The current

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gap between capability to correctly predict outcomes and set expectation for new and existing products and processes affects human-system performance, market acceptance, product safety, and satisfaction at work. The handbook provides

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the fundamental concepts and tools for digital human modeling and simulation with a focus on its foundations in human factors and ergonomics. The tools identified and made available in this handbook help reduce the need for physical prototyping. They

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enable engineers to quantify acceptability and risk in design in terms of the human factors and ergonomics.

The stability of rock slopes is an important issue in both civil and mining engineering. On civil projects, rock cuts must be safe

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from rock falls and large-scale slope instability during both construction and operation. In open pit mining, where slope heights can be many hundreds of meters, the economics of the operation are closely related to the steepest stable slope angle

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that can be mined. This extensively updated version of the classic text, Rock Slope Engineering by Hoek and Bray, deals comprehensively with the investigation, design and operation of rock slopes. Investigation methods include

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the collection and interpretation of geological and groundwater data, and determination of rock strength properties, including the Hoek Brown rock mass strength criterion. Slope design methods include the theoretical basis for the design of plane, wedge,

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circular and toppling failures, and design charts are provided to enable rapid checks of stability to be carried out. New material contained in this book includes the latest developments in earthquake engineering related to slope stability, probabilistic

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analysis, numerical analysis, blasting, slope movement monitoring and stabilization methods. The types of stabilization include rock anchors, shotcrete, drainage and scaling, as well as rock fall protecting methods involving

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barriers, ditches, nets and sheds. Rock Slopes: Civil and Mining Engineering contains both worked examples illustrating data interpretation and design methods, and chapters on civil and mining case studies. The case studies demonstrate the

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application of design methods to the construction of stable slopes in a wide variety of geological conditions. The book provides over 300 carefully selected references for those who wish to study the subject in greater detail. It also includes an

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introduction by Dr. Evert Hoek. Coal Production and Processing Technology provides uniquely comprehensive coverage of the latest coal technologies used in everything from mining to greenhouse gas mitigation. Featuring contributions from

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experts in industry and academia, this book:Discusses coal geology, characterization, beneficiation, combustion, coking, gasification, and liquef
Construction Cost Estimating for Project Control
Rural Development Research

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Report

Handbook of Digital Human
Modeling

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Surface and Underground
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SME Mining Engineering
Handbook, Third Edition

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***Surface and Underground
Excavations - Methods,
Techniques and Equipment
(2nd edition) covers the
latest technologies and
developments in the
excavation arena at any***

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locale: surface or underground. In the first few chapters, unit operations are discussed and subsequently, excavation techniques are described for various

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operations: tunnelling, drifting, raising, sinking, stoping, quarrying, surface mining, liquidation and mass blasting as well as construction of large subsurface excavations such

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as caverns and underground chambers. The design, planning and development of excavations are treated in a separate chapter. Especially featured are methodologies to select

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stopping methods through incremental analysis.

Furthermore, this edition encompasses

comprehensive sections on mining at 'ultra depths', mining difficult deposits

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using non-conventional technologies, mineral inventory evaluation (ore - reserves estimation) and mine closure. Concerns over Occupational Health and Safety (OHS), environment

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and loss prevention, and sustainable development are also addressed in advocating a solution to succeed within a scenario of global competition and recession. This expanded

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second edition has been wholly revised, brought fully up-to-date and includes (wherever feasible) the latest trends and best practices, case studies, global surveys and toolkits

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as well as questions at the end of each chapter. This volume will now be even more appealing to students in earth sciences, geology, and in civil, mining and construction engineering, to

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practicing engineers and professionals in these disciplines as well as to all with a general or professional interest in surface and underground excavations.

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The construction professional has to be a “jack of all trades, and master of all.” This text covers a wide range of subjects, reflecting the breadth of knowledge

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needed to understand the dynamics of this large and complex industry. This edition introduces extended coverage in the scheduling area to address more advanced and practice

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oriented procedures such as Start to Start, Finish to Finish, and similar relationship between activities in a network schedule.

37th U.S. Symposium on

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**Rock Mechanics Taylor &
Francis USA
Advances in
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FIP WG 5.7
International Conference,**

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***APMS 2020, Novi Sad,
Serbia, August 30 -
September 3, 2020,
Proceedings, Part II Springer
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Proceedings of the ...
International Conference on***

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Tailings & Mine Waste

Minería chilena

Geotechnical Engineering

Handbook, Procedures

An Introduction to Applied

and Environmental

Geophysics

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***Research for Applied
Ergonomics and Human
Factors Engineering
Computer graphics
demonstration***

Naturally occurring toxins are
among the most complicated and

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lethal in existence. Plant species, microorganisms and marine flora and fauna produce hundreds of toxic compounds for defence and to promote their chances of survival, and these can be isolated and appropriated for our own use.

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Many of these toxins have yet to be thoroughly described, despite being studied for years. Focusing on the natural toxins that are purely toxic to insects, this book contains over 500 chemical structures. It discusses the

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concepts and mechanisms involved in toxicity, bioassay procedures for evaluation, structure-activity relationships, and the potential for future commercialization of these compounds. A comprehensive

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review of the subject, this book forms an important source of information for researchers and students of crop protection, pest control, phytochemistry and those dealing in insect-plant interactions.

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Building on the success of its 2006 predecessor, this 3rd edition of Open Pit Mine Planning and Design has been both updated and extended, ensuring that it remains the most complete and authoritative account of modern

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open pit mining available. Five new chapters on unit operations have been added, the revenues and costs chapter has been substantial

The aim of this volume is to collect and present available data, both

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published and unpublished, on energy use in agriculture and forestry production. Energy analyses for some sciences such as ecology are not new, but their applications to agriculture started in 1973. These analyses have

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grown rapidly in number and complexity. This handbook is intended for agriculturalists and others concerned with energy use in crop, livestock, and forestry production.

Environmental Impact Statement

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Fourth edition

How to Design and Build Swales,
Dams, Ponds, and other Water
Harvesting Systems

Yellow Steel

Advances in Spatio-Temporal
Analysis

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Litt's Drug Eruption Reference Manual Including Drug Interactions, 13th Edition

Developments in Geographic Information Technology have raised the expectations of users. A

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static map is no longer enough; there is now demand for a dynamic representation. Time is of great importance when operating on real world geographical phenomena,

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especially when these are dynamic. Researchers in the field of Temporal Geographical Information Systems (TGIS) have been developing methods of incorporating time into

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geographical information systems. Spatio-temporal analysis embodies spatial modelling, spatio-temporal modelling and spatial reasoning and data mining. Advances in Spatio-

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Temporal Analysis
contributes to the field
of spatio-temporal
analysis, presenting
innovative ideas and
examples that reflect
current progress and

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achievements.

The two-volume set IFIP

AICT 591 and 592

*constitutes the refereed
proceedings of the*

International IFIP WG 5.7

Conference on Advances in

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Production Management Systems, APMS 2020, held in Novi Sad, Serbia, in August/September 2020. The 164 papers presented were carefully reviewed and selected from 199

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submissions. They discuss globally pressing issues in smart manufacturing, operations management, supply chain management, and Industry 4.0. The papers are organized in

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the following topical sections: Part I: advanced modelling, simulation and data analytics in production and supply networks; advanced, digital and smart

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manufacturing; digital and virtual quality management systems; cloud-manufacturing; cyber-physical production systems and digital twins; IIOT interoperability;

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supply chain planning and optimization; digital and smart supply chain management; intelligent logistics networks management; artificial intelligence and

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blockchain technologies in logistics and DSN; novel production planning and control approaches; machine learning and artificial intelligence; connected, smart factories

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*of the future;
manufacturing systems
engineering: agile,
flexible, reconfigurable;
digital assistance
systems: augmented reality
and virtual reality;*

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circular products design and engineering; circular, green, sustainable manufacturing; environmental and social lifecycle assessments; socio-cultural aspects in

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production systems; data-driven manufacturing and services operations management; product-service systems in DSN; and collaborative design and engineering Part II:

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the Operator 4.0: new physical and cognitive evolutionary paths; digital transformation approaches in production management; digital transformation for more

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*sustainable supply chains;
data-driven applications
in smart manufacturing and
logistics systems; data-
driven services:
characteristics, trends
and applications; the*

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future of lean thinking and practice; digital lean manufacturing and its emerging practices; new reconfigurable, flexible or agile production systems in the era of

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industry 4.0; operations management in engineer-to-order manufacturing; production management in food supply chains; gastronomic service system design; product and asset

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life cycle management in the circular economy; and production ramp-up strategies for product
An Introduction to Applied and Environmental Geophysics, 2nd Edition,

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describes the rapidly developing field of near-surface geophysics. The book covers a range of applications including mineral, hydrocarbon and groundwater exploration,

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and emphasises the use of geophysics in civil engineering and in environmental investigations. Following on from the international popularity of the first

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edition, this new, revised, and much expanded edition contains additional case histories, and descriptions of geophysical techniques not previously included in

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such textbooks. The level of mathematics and physics is deliberately kept to a minimum but is described qualitatively within the text. Relevant mathematical expressions

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are separated into boxes to supplement the text.

The book is profusely illustrated with many figures, photographs and line drawings, many never previously published. Key

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source literature is provided in an extensive reference section; a list of web addresses for key organisations is also given in an appendix as a valuable additional

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resource. Covers new techniques such as Magnetic Resonance Sounding, Controlled-Source EM, shear-wave seismic refraction, and airborne gravity and EM

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techniques Now includes radioactivity surveying and more discussions of down-hole geophysical methods; hydrographic and Sub-Bottom Profiling surveying; and UneXploded

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Ordnance detection

Expanded to include more forensic, archaeological, glaciological, agricultural and biogeophysical applications
Includes more information

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*on physio-chemical
properties of geological,
engineering and
environmental materials
Takes a fully global
approach Companion website
with additional resources*

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*available at www.wiley.com/go/reynolds/introduction2
e Accessible core textbook
for undergraduates as well
as an ideal reference for
industry professionals The
second edition is ideal*

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for students wanting a broad introduction to the subject and is also designed for practising civil and geotechnical engineers, geologists, archaeologists and

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