

Indian School Of Mines Dhanbad Rules Governing Discipline

This book provides different aspects on fuel processing and refinery for energy generation. Most updated research findings along with case studies, real scenario examples, and extensive analyses of original research work and literature reviews is included in this book.

Applied Microbiology and Bioengineering: An Interdisciplinary Approach Discusses recent advances in microbiology and cutting-edge biotechnology that have generated interest among researchers. The book is divided into several sections, including Enzymes in Bioprocessing, Human Health, Microbial Physiology and Biomedical Applications, and Bioprocess Development. Included are some of the latest developments in the field, like smart actuators for innovative biomedical applications, microalgal antenna engineering for improved bioprocess of biofuel, cell line engineering, and symbiotic foods. It is a useful reference for those in the applied microbiology and biotechnology fields, but will also be useful for practitioners in biotech. Provides insight into the various interdisciplinary research avenues which can be utilized to benefit current researchers and students. Covers novel topic areas in the field of applied microbiology, like smart actuators for innovative biomedical application, microbial tyrosinases, production of halophilic alkaline protease, human probiotic applications, and the biotechnological aspects of methylobacterium. Reviews Innovative bio-processing technologies for horticultural products and the bioprocess development for synthetic foods

This book comprises selected peer-reviewed papers presented at the 7th Topical Conference of the Indian Society of Atomic and Molecular Physics, jointly held at IISER Tirupati and IIT Tirupati, India. The contributions address current topics of interest in atomic and molecular physics, both from the theoretical and experimental perspective. The major focus areas include quantum collisions, spectroscopy of atomic and molecular clusters, photoionization, Wigner time delay in collisions, laser cooling, Bose-Einstein condensates, atomic clocks, quantum computing, and trapping and manipulation of quantum systems. The book also discusses emerging topics such as ultrafast quantum processes including those at the attosecond time-scale. This book will prove to be a valuable reference for students and researchers working in the field of atomic and molecular physics.

Machines, Mechanism and Robotics

Proceedings of a Symposium Held in November 1964

Fuel Processing and Energy Utilization

Wage-Productivity Relationship in Indian Public Sector

Printed Antennas

This book focuses primarily on the nature-inspired approach for designing smart applications. It includes several implementation paradigms such as design and path planning of wireless network, security mechanism and implementation for dynamic as well as static nodes, learning method of cloud computing, data exploration and management, data analysis and optimization, decision taking in conflicting environment, etc. The book fundamentally highlights the recent research advancements in the field of engineering and science.

Mining is basically an intermediate use of land and it causes various impacts on all the components of environment. In most situations the impacts on land are severe and may cause the land to become useless for any economic use after mining. Since, the mining companies take land areas which have been in various uses before the onset of mining activities it should have been obligatory for the companies to develop the land areas for uses most suitable for the economic activities after mining. Though this was known right from the inception of the mining activities the efforts towards developing the land after mining were negligible. This has resulted in devastation of mined out land in many locations in the country. Keeping in view the importance and the necessity of development of land areas legislation have been formulated for mine closure. The legislation are recent not many mines have been closed in accordance with the provisions therein. A lot of work is still required to be done to make mine closure really effective. All over the world the importance of the mine closure is being realized due mainly to the following reasons. Closure planning at all the stages in a mine's life is important to the economics of a mine and such a planning results in a large cost savings. In this book the following aspects of mine closure planning and implementation in the opencast and underground mines, with special reference to the mining situations in the India, have been outlined. 1. Impacts of mining on environmental components and their roles in mine closure planning; 2. Legal, social and economic necessity of mine closure; 3. Land use planning as a tool for mine closure planning and implementation; 4. How to incorporate mine closure in mine planning; 5. Mine closure planning in underground and opencast mines; 6. Implications of mine fires in mine closure; 7. Mine closure planning for small mines; 8. Taking care of the abandoned mines, i.e., closure of abandoned mines; 9. Economics of mine closure; 10. Management of ecology during mine closure. The book is expected to be useful to the practical mining engineers and environmental- talists in mine planning and design. It should also be useful to the researchers and students of mining and environment.

Mining refers to the process of extracting minerals and metals from the crust of the earth. Some minerals can be mined more easily as they are found on the earth's surface, while others lie far beneath the surface and can be obtained only by digging deep underground. Gold, Silver, Diamond, Iron, Coal, Aluminium (Bauxite) and Uranium are some of the vast array of metals and minerals that are obtained by the latter process. In fact, mining is the source of all the substances that cannot be obtained by industrial processes or through agriculture. Mining, in its wider sense connotes extracting and processing of a non- renewable mineral resource. Minerals can be classified into metallic (iron, copper, gold, aluminum, uranium etc.) and non-metallic (sand, salt, phosphates etc.) These minerals are non-renewable or depleting assets and once mined-out, they are exhausted and are lost forever without any chance of replenishment. Simply, this exhaustible resource cannot be harvested, unlike agricultural products.

Proceedings of ETES 2018

NexGen Technologies for Mining and Fuel Industries (Volume I and II)

Proceedings of a Symposium Held in November, 1964, at the Indian School of Mines, Dhanbad

Under the Auspices of the Mining, Geological and Metallurgical Institute of India

Quantum Collisions and Confinement of Atomic and Molecular Species, and Photons

At the Indian School of Mines, Dhanbad

In today's modern age of information, new technologies are quickly emerging and being deployed into the field of information technology. Cloud computing is a tool that has proven to be a versatile piece of software within IT. Unfortunately, the high usage of Cloud has raised many concerns related to privacy, security, and data protection that have prevented cloud computing solutions from becoming the prevalent alternative for mission critical systems. Up-to-date research and current techniques are needed to help solve these vulnerabilities in cloud computing. Modern Principles, Practices, and Algorithms for Cloud Security is a pivotal reference source that provides vital research on the application of privacy and security in cloud computing. While highlighting topics such as chaos theory, soft computing, and cloud forensics, this publication explores present techniques and methodologies, as well as current trends in cloud protection. This book is ideally designed for IT specialists, scientists, software developers, security analysts, computer engineers, academicians, researchers, and students seeking current research on the defense of cloud services.

This book presents peer-reviewed articles from the International Conference on Optics and Electro-optics, ICOL-2019, held at Dehradun in India. It brings together leading researchers and professionals in the field of optics/optical engineering/optical materials and provides a platform to present and establish collaborations in this important area, with the theme "Trends in Electro-optics Instrumentation for Strategic Applications". Topics covered but not limited to are Optical Engineering, Optical Thin Films, Optical Materials, IR Sensors, Image Processing & Systems, Photonic Band Gap Materials, Adaptive Optics, Optical Image Processing & Holography, Lasers, Fiber Lasers & its Applications, Diffractive Optics, Innovative packaging of Optical Systems, Nanophotonics Devices and Applications, Optical Interferometry & Metrology, Terahertz, Millimeter Wave & Microwave Photonics, Fiber, Integrated & Nonlinear Optics and Optics and Electro-optics for Strategic Applications.

This book offers a detailed discussion of the complex magnetic behavior of magnetic nanosystems, with its myriad of geometries (e.g. core-shell, heterodimer and dumbbell) and its different applications. It provides a broad overview of the numerous current studies concerned with magnetic nanoparticles, presenting key examples and an in-depth examination of the cutting-edge developments in this field. This contributed volume shares the latest developments in nanomagnetism with a wide audience: from upper undergraduate and graduate students to advanced specialists in both academia and industry. The first three chapters serve as a primer to the more advanced content found later in the book, making it an ideal introductory text for researchers starting in this field. It provides a forum for the critical evaluation of many aspects of complex nanomagnetism that are at the forefront of nanoscience today. It also presents highlights from the extensive literature on the topic, including the latest research in this field.

Data Classification and Incremental Clustering in Data Mining and Machine Learning

Theory and Design

Handbook of Research on Predictive Modeling and Optimization Methods in Science and Engineering

Select Proceedings of ICGCE 2018

ICOL-2019

Mine Closure

This book discusses the bioremediation of both solid and liquid waste, including regional solutions for India as well as globally relevant applications. The topics covered include pollutant reduction through composting, solutions for petroleum refinery waste, use of microorganisms in the bioremediation of industrial waste and toxicity reduction, microbial fuel cells, and microbial depolymerisation. The bioremediation of leachates, especially with regard to soil and groundwater remediation. It is a valuable resource for researchers, professionals, and policy makers alike.

Papers presented at the National Seminar on "Tyres in Mining and Allied Sectors: Status and Outlook", held at Dhanbad in 2003.

Printed antennas have become an integral part of next-generation wireless communications and have been found to be commonly used to improve system capacity, data rate, reliability, etc. This book covers theory, design techniques, and the chronological regression of the printed antennas for various applications. This book will provide readers with the basic conceptual knowledge about antenna variety of analytical techniques and their CAD applications and discusses new applications of printed antenna technology such as sensing. The authors also present special reconfigurable antennas such as ME dipole, polarization, feeding, and DGS. The book will be useful to students as an introduction to design and applications of antennas. Additionally, experienced researchers in this field will find a lot of research in printed antennas included in this book. Following are some of the salient features of this book: Covers a variety of analytical techniques and their CAD applications Discusses new applications of printed antenna technology such as sensing Examines the state of design techniques of printed antenna Presents special reconfigurable antennas such as ME dipole, polarization, feeding, and

Advances in Computer, Communication and Control

Third International Conference, MIKE 2015, Hyderabad, India, December 9-11, 2015, Proceedings

Applied Microbiology and Bioengineering

Tyres in Mining and Allied Sectors: Status and Outlook

Journal of the Indian School of Mines and Applied Geology, Dhanbad

Nature-Inspired Computing for Smart Application Design

The disciplines of science and engineering rely heavily on the forecasting of prospective constraints for concepts that have not yet been proven to exist, especially in areas such as artificial intelligence. Obtaining quality solutions to the problems presented becomes increasingly difficult due to the number of steps required to sift through the possible solutions, and the ability to solve such problems relies on the recognition of patterns and the categorization of data into specific sets. Predictive modeling and optimization methods allow unknown events to be categorized based on statistics and classifiers input by researchers. The Handbook of Research on Predictive Modeling and Optimization Methods in Science and Engineering is a critical reference source that provides comprehensive information on the use of optimization techniques and predictive models to solve real-life engineering and science problems. Through discussions on techniques such as robust design optimization, water level prediction, and the prediction of human actions, this publication identifies solutions to developing problems and new solutions for existing problems, making this publication a valuable resource for engineers, researchers, graduate students, and other professionals.

Know Your State Jharkhand gives the complete description of History, Geography, Economy, Culture and Politics with Growth & Prospects of Haryana. The book has been divided into different sections, such as, history, geography, Climate Condition, Rivers & Lakes, art & culture, Press, Language, Administration, Tourist Places, Architecture and the miscellaneous information of Haryana. The present book on Jharkhand state has been divided into 29 chapters namely/Ancient History of Jharkhand, Medieval History of Jharkhand, Modern History of Jharkhand, Tribal Revolt, Struggle for a Separate State, Geographical Features, Soil & Climate, River & Lakes, Flora & Fauna, Industries, Agriculture & Animal Husbandry, Irrigation in Jharkhand, Mineral Profile of Jharkhand, Transport & Communication, Energy Sector, Tourism, District Profile, Jharkhand Executive, Jharkhand Legislature, Jharkhand Judiciary, Local Self-Government & Panchayati Raj, Cultural Heritage, Festivals & Fairs, Language & Literature, Education, Jharkhand Tribes, Sports of Jharkhand, Awards & Honours and Important Personalities.Chapterwise Theory and Multiple Choice Questions (MCQs) have been given in the book along with latest current updates. Each of the sections in the book has been adorned with latest information, at the same time keeping the language simple and text lucid. As the book contains detailed information on the state of Jharkhand it will serve to be highly useful for JPMC and other state level exams.

This comprehensive technical book covers theory and practice coupled with practical examples and design aspects. It contains eight extensive chapters elaborating broad-spectrum functionalities of highwall mining and its operational aspects, covering world scenario, economic potential, methods of coal extraction, design methodology including empirical web pillar design, numerical modelling for stress analysis, safety factor for web pillars, panel and barrier design, small-and large-scale numerical modelling, multiple seam interaction and design, coal web pillar strength, equivalent width concept, laboratory testing, new web pillar strength formula, effect of weak bands in coal seam, slope stability, safety and ground monitoring, hazards and regulatory requirements, case examples, norms and guidelines for practice. It also summarizes the results of research carried out by the CSIR Central Institute of Mining and Fuel Research (CSIR-CIMFR), India and the Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia on the subject. The book will equip readers in understanding the complex, multiple seam scenarios for highwall mining, and its design for maximum coal recovery from any given site with better economics, which will aid the mining companies in extracting locked-up coal following the safety norms to avoid hazards and minimise instability issues. A large number of case studies is included to illustrate the application of numerical modelling for prior estimation and viability of highwall mining operations under varying geomechanical conditions. The book will be of interest to professionals and academics in the field of mining engineering specifically, but will also interest civil, geomechanical and geological engineers as well as rock mechanics professionals.

Comprehensive Nanoscience and Nanotechnology

Applications of Fluid Dynamics

Highwall Mining

Know Your State Jharkhand

Two-Dimensional Nanostructures for Biomedical Technology

Investment Decision in Indian Public Sector

This book presents high-quality papers presented at 3rd International Conference on Applications of Fluid Dynamics (ICAFD 2016) organized by Department of Applied Mathematics, ISM Dhanbad, Jharkhand, India in association with Fluid Mechanics Group, University of Botswana, Botswana. The main theme of the Conference is "Sustainable Development in Africa and Asia in context of Fluid Dynamics and Modeling Approaches". The book is divided into seven sections covering all applications of fluid dynamics and their allied areas such as fluid dynamics, nanofluid, heat and mass transfer, numerical simulations and investigations of fluid dynamics, magnetohydrodynamics flow, solute transport modeling and water jet, and miscellaneous. The book is a good reference material for scientists and professionals working in the field of fluid dynamics.

This book constitutes the refereed proceedings of the Third International Conference on Mining Intelligence and Knowledge Exploration, MIKE 2015, held in Hyderabad, India, in December 2015. The 48 full papers and 8 short papers presented together with 4 doctoral consortium papers were carefully reviewed and selected from 185 submissions. The papers cover a wide range of topics including information retrieval, machine learning, pattern recognition, knowledge discovery, classification, clustering, image processing, natural language processing, language, cognition and computation, fuzzy sets, and business intelligence.

The book discusses the recent research trends in various sub-domains of computing, communication and control. It includes research papers presented at the First International Conference on Emerging Trends in Engineering and Science. Focusing on areas such as optimization techniques, game theory, supply chain, green computing, 5g networks, Internet of Things, social networks, power electronics and robotics, it is a useful resource for academics and researchers alike.

Jharkhand Objective 2021

Proceedings Geomechanics and Ground Control

ISMAQ

Jharkhand PT Solved 2021

Proceedings of IInaCoMM 2019

Indian School of Mines. Prospectus

This is a pioneering attempt which has determined the quantitative relationship between the parameters (i) Money wage and productivity, and (ii) Real wage and Productivity, covering a wide range of data on production, employment, money wage, real wage, productivity and wage-share in Indian Public Sector. This book has determined the nature of relationship between wage and productivity in Eastern Coalfield Limited, Bharat Coking Coal Limited, Indian Steel Industry and Indian Railway Industry which are the leading public enterprises in Indian Economics. Thus, this book on Industrial Economics is considered as a pioneering research work in the area of Labour-Manageial Economics. Review ``Issues relating to wages have remained polemic. However, it is agreed that labourers deserve reasonable wages which should be based on both productivity and cost of living. Wages assume importance as they serve as an incentive for the labourers. Students of Industrial Economics will find this book useful''. I. Satya Sundaram, Southern Economist, May 96, Bangalore

This book on Investment Decision in Indian Public Sector is an attempt to determine the quantitative relationship between the economic parameters: (i) Investment and profit and (ii) Investment and output, incorporating a wide range of data on production, employment, productivity, wage, price, wage-share, social overhead cost, assets and investment in leading public enterprises in Indian economy such as, Eastern Coalfield Limited, Bharat Coaking Coal Limited, Coal India Limited and Steel Authority of India Limited. Thus, this research book in Managerial Economics establishes its importance in the area of industrial economics.

Two Dimensional Nanostructures for Biomedical Technology: A Bridge between Materials Science and Bioengineering helps researchers to understand the promising aspects of two dimensional nanomaterials. Sections cover the biomedical applications of such nanostructures in terms of their predictive modelling, morphology and size. Further, detailed synthetic methodologies guide the reader towards the efficient generation of two dimensional nanostructures. The book encompasses the vital aspects of two dimensional nanomaterials in context of their utility in biomedical technology, thus presenting a thorough guide for researchers in this area. Details the latest on the structure, morphology and shape-size accords of two dimensional nanomaterials Includes synthetic strategies with feasibility for sustainability Reports on two dimensional nanostructures in biomedical technology, including bio-imaging, biosensing, drug delivery and tissue engineering

Proceedings of ICAFD 2016

Applicability, Design & Safety

Synthesis, Assembly and Applications

Complex Magnetic Nanostructures

Report of the Reorganisation Committee of the Indian School of Mines, Dhanbad

Mining in the 21st Century

This book is a collection of carefully selected works presented at the Third International Conference on Computer Vision & Image Processing (CVIP 2018). The conference was organized by the Department of Computer Science and Engineering of PDPM Indian Institute of Information Technology, Design & Manufacturing, Jabalpur, India during September 29-30, 2018. The papers in the book are organized into the following domains: 1. Image/Video Processing and Analysis; Image/Video Filtering, Restoration, Enhancement and Super-resolution; Image/Video Coding and Transmission; Image/Video Storage, Retrieval and Authentication; Image/Video Quality; Transform-based and Multi-resolution Image/Video Analysis; Biological and Perceptual Models for Image/Video Processing; Machine Learning in Image/Video Analysis; Probability and uncertainty handling for Image/Video Processing; and Motion and Tracking.

This book comprises select proceedings of the First International Conference on Geomatics in Civil Engineering (ICGCE 2018). This book presents latest research on applications of geomatics engineering in different domains of civil engineering, like structural engineering, geotechnical engineering, hydraulic and water resources engineering, environmental engineering and transportation engineering. It also covers miscellaneous applications of geomatics in a wide range of technical and societal problems making use of geospatial information, engineering principles, and relational data structures involving measurement sciences. The book proves to be very useful for the scientific and engineering community working in the field of geomatics and geospatial technology.

The papers in these two volumes were presented at the International Conference on "NexGen Technologies for Mining and Fuel Industries" [NxnMifu-2017] in New Delhi from February 15-17, 2017, organized by CSIR-Central Institute of Mining and Fuel Research, Dhanbad, India. The proceedings include the contributions from authors across the globe on the latest research on mining and fuel technologies. The major issues focused on are: Innovative Mining Technology, Rock Mechanics and Stability Analysis, Advances in Explosives and Blasting, Mine Safety and Risk Management, Computer Simulation and Mine Automation, Natural Resource Management for Sustainable Development, Environmental Impacts and Remediation, Paste Fill Technology and Waste Utilisation, Fly Ash Management, Clean Coal Initiatives, Mineral Processing and Coal Beneficiation, Quality Coal for Power Generation and Conventional and Non-conventional Fuels and Gases. This collection of contemporary articles contains unique knowledge, case studies, ideas and insights, a must-have for researchers and engineers working in the areas of mining technologies and fuel sciences.

Waste Bioremediation

Mining Environment Management Manual

Applications of Geomatics in Civil Engineering

THE EFFECT OF IRON ORE MINING ON ENVIRONMENT & IT'S REGULATION IN INDIA

Indian Mining Directory

Monitoring and Prediction Technologies

Principles And Practices Of Modern Coal Mining Is A Comprehensive Text Book On The Theory And Practice Of Coal Mining. It Highlights The Principles And Describes The Modern Techniques Of Surface And Underground Coal Mining Citing Examples From India And Abroad. It Deals With The Exploitation Of Coal Seams Of Different Thicknesses And Dips Occurring In A Variety Of Conditions. Emerging Technologies Of Coal Mining And Their Applications Have Also Been Amply Discussed.After An Introductory Chapter Tracing The History Of Coal Mining And The Development Of Coal Mining Industry In Different Principal Coal ProducingCountries And Highlighting The Emerging Technologies Of Coal Mining The World Over, The Book Offers A Chapter By Chapter Discussion Of The State Of Art Of Underground And Surface Coal Mining Technology.Every Aspect Of Science Of Coal Mining From Geological Occurrence And Exploration To Planning And Exploitation Of Coal Seams, Including Management Of Environment Has Been Scrutinised By The Author. For The Professionals In The Coal Industry As Well As To The Planners, Researchers And Students Of Mining Engineering, The Book Will Be A Useful Reference.

This Mining Environment Management Manual is developed for the benefit of the entire mining industry in the Country. The Manual has been designed in such a manner that it can be easily used by the engineers and environmentalists in the mining complexes in their efforts for the management of mining environment. The Manual presents the existing status and comprehensive overview of all the aspects of mining environment. Since environment is a developing subject the user of the Manual is suggested to, wherever necessary, consult the web-sites of MOEF and other concerned organizations for the latest status. The manual in nineteen chapters outlines the following for the benefit of the users. 1. Broad details of the mineral mining industry in the country. 2. Policies, legislation, standards and procedures for establishing and operating the mines covering an environmental overview of the national policies and the policies of the mining companies, mining and environmental legislations and standards, site selection, environmental clearance, forestry clearance, and the various formats to be filled or establishing and operating the mines. 3. Preparation of the environmental management plans (EMPs) of the mining projects. 4. Environmental monitoring. 5. Mining methods commonly used in the Indian coal and non-coal mineral industry. 6. Environmental impacts of mining on society, ecology, land, water regime and atmosphere. 7. Environmental impact assessment (EIA). 8. Environmental management measures required in mineral mining including the assessment of quality of life, development of R&R packages, development of surface and underground water bodies, reclamation of trees, formation and management of soil and overburden dumps, environmental aspects of blasting, land reclamation and rehabilitation planning, mine fires, acid mine drainage, inundation, noise modeling, etc. 9. Mine closure comprising of legislative and social necessity of mine closure in the Indian context, mine closure planning for underground and opencast mines, and format for mine closure planning in project report. 10. Procedure for environmental performance auditing and evaluation. 11. Land acquisition and optimization of land requirement for mining and associated activities, and rehabilitation and resettlement. 12. Land use planning in mining areas. 13. Risk assessment and disaster management. 14. Environmental aspects of tailing storage. 15. Use of geographical information system in environmental management in mining areas. 16. Utilization of fly ash in mines. 17. Environmental economics. 18. Roles of executives in environmental management in mining areas. 19. Do's and don'ts in environmental management planning and implementation. The manual in simple English aims at to attract attention of one and all concerned with the management of mining environment. The manual will be useful to the following categories of the people in the mining complexes in the Country and Abroad. · Mine planners in planning and designing of the mining activities and integration of environmental management measures in the mining methods. · Mine operators in implementing the environmental management measures, monitoring and compliance of legislation. · Regulatory agencies and their executives in developing a better understanding of the mining environment related aspects and implementing the legislation. · Research workers in planning, designing, and undertaking research and development activities. · Educationists in imparting the knowledge and know-how to the participants in various academic and human resource development programs. · The Non-Governmental Organizations (NGOs) in developing a better understanding of the mining environment and assisting the mineral industry in effective implementation of the environmental management efforts. · The people in the mining complexes in developing the understanding of various aspects of the management of mining environment. In addition the Manual will be an important addition to the knowledge base in the libraries of all the institutions and organizations associated with mining and environmental management. The user is advised to read the Manual carefully and understand the various topics discussed and then use their own wisdom and the suggestions made in the Manual in design, planning, implementation and monitoring of the mining activities. The legislative aspect of mining environmental management is dynamic and time to time changes are made in the Acts. Rules and Regulations by the Central and State Governments. The user is therefore advised to get abreast with the latest developments through the web-sites of the MOEF and the Central and State Pollution Control Boards and other regulatory agencies, e.g., DGMS, IBM, etc.

Sensing and Monitoring Technologies for Mines and Hazardous Areas: Monitoring and Prediction Technologies presents the fundamentals of mining related geotechnical risk and how the latest advances in sensing and data communication can be used both to prevent accidents and provide early warnings. Opencast mining operations involve huge quantities of overburden removal, dumping, and backfilling in excavated areas. Substantial increases in the rate of accumulation of waste dumps in recent years has resulted in greater height of dumps and also has given rise to the danger of dump failures as steeper open pit slopes are prone to failure. These failures lead to loss of valuable human lives and damage to mining machinery. This book presents the most recent advances in gas sensors, methane detectors, and power cut-off systems. It also introduces monitoring of the gas strata and environment, and an overview of the use of Internet of Things and cloud computing for mining sensing and surveillance purposes. Targeted at geotechnical and mining engineers, this volume covers the latest findings and technology to prevent mining accidents and mitigate the inherent risk of the activity. Presents complete details of a real-time slope stability monitoring system using wireless sensor networking and prediction technique based on multivariate statistical analysis of various parameters and analytical hierarchy process methods Discusses innovative ideas and new concepts of sensing technologies, mine transport surveillance, digital mining, and cloud computing to improve safety and productivity in mining industry Includes slope stability prediction software, downloadable through a companion website, which can be used for monitoring, analyzing, and storing different sensors and providing audio-visual, SMS, and email alerts Covers the latest findings and technology to prevent mining accidents and mitigate the inherent risk

CVIP 2018, Volume 2

Quo Vadis?

Proceedings of 3rd International Conference on Computer Vision and Image Processing

Select Proceedings of the 7th Topical Conference of ISAMP 2018

Proceedings of the International Conference on Optics and Electro-Optics, Dehradun, India

A Bridge between Material Science and Bioengineering

Comprehensive Nanoscience and Technology, Second Edition allows researchers to navigate a very diverse, interdisciplinary and rapidly-changing field with up-to-date, comprehensive and authoritative coverage of every aspect of modern nanoscience and nanotechnology. Presents new chapters on the latest developments in the field Covers topics not discussed to this degree of detail in other works, such as biological devices and applications of nanotechnology Compiled and written by top international authorities in the field

Detailed and verifiable answers for all past PT exams of Jharkhand. Important facts, Maps, Tables, infographics included.

This volume includes select papers presented during the 4th International and 19th National Conference on Machines and Mechanism (InaCoMM 2019), held in Indian Institute of Technology, Mandi. It presents research on various aspects of design and analysis of machines and mechanisms by academic and industry researchers.

An Interdisciplinary Approach

Contributions to Geology from Department of Applied Geology, Indian School of Mines, Dhanbad

Mining Intelligence and Knowledge Exploration

Principles and Practices of Modern Coal Mining

Sensing and Monitoring Technologies for Mines and Hazardous Areas

Modern Principles, Practices, and Algorithms for Cloud Security