

Prof Harsh K Gupta National Disaster Management

This Is An Updated And Enlarged Edition Of The Earlier Book Citadel Of Ice By The Same Author. The Book Vividly Describes Indias Epoch-Making, Daring Scientific Adventure In The Icy Continent Of Antarctica; It Narrates The Story Of A Group Of 12 Scientists And Soldiers, Who Helped To Establish The First Ever Over-Wintering Indian Base, Dakshin Gangotri On A Floating Ice Shelf In Antarctica. Beginning With A Description Of The Voyage To Antarctica Through The Roaring Forties, Icebergs, Pack Ice And Fast Sea Ice, The Book Recounts The Painstaking Process Of Selecting A Construction Site For Dakshin Gangotri On A 400M Thick Continental Ice Shelf And The Construction Of The Station Right From Its Foundation To The Commissioning Of The Life-Support Systems. The Book Then Describes The Hair-Raising Incidents Of The Long Antarctic Blizzards Where The Wind Many A Time Touched Over 250Km/H With Snow Flying All Around, Which Threatened The Very Existence Of The Base. It Highlights The Arduous Struggles Of Psychological And Biological Adjustment With The Mid-Night Sun And Polar Night With The Temperature Going Down To As Low As -60°C . The Book Also Highlights The Beauty Of The Aurora Australis, Polar Shadows, Mirage Effects And Other Optical Illusions. Presents An Intriguing Account Of The Expeditions Through The Polar Ice Cap With Deep Crevasses, Flowing Rivers And Treacherous Lakes, Glaciers And Nunataks. The Teams Gallant Efforts Put India On The World Map Amongst The Scientifically-Advanced Nations. The Nation Rewarded The Teams Achievement By Awarding One Kirti Chakra, Two Shaurya Chakras, Five Sena Medals And One Vishishtha Sewa Medal, Which Is The Highest Number Of National Awards Won By Any National Mission. This Book Now Includes A Vivid Account Of The Later Expeditions To Antarctica Alongwith Their Contribution To Indian Scientific Research. The Book, Written By The Leader Of The Team With A Foreword By Padma Vibhushan Dr. S.Z. Qasim, Former Member, Planning Commission And Secretary, Department Of Ocean Development, Is Illustrated With Over 45 Coloured Photographs And Maps.

Atmospheric Research in Antarctica: Present Status and Thrust Areas in Climate Change represents a panoramic view of the developments in the field of Antarctic atmospheric sciences and meteorology broadly covering geomagnetism and aeronomy, middle atmospheric studies and global and climate change studies. It includes greenhouse gases, ozone monitoring as well as very low frequency (VLF) phenomena, and space weather, Antarctic meteorology, and mathematical modeling of atmosphere and ocean processes around Antarctica. Atmospheric electricity and aerosols investigations over Antarctica along with the total solar eclipse-related studies, calibration of AWIFS Sensor, and measurements of positive ions, are also discussed. This book is aimed at researchers and graduate students in atmospheric studies, meteorology, Antarctic studies, climate change. FEATURES: Covers scientific aspects of Antarctic meteorology and

atmospheric sciences under climate change scenario Contains diverse set of information with strong bearing on recent and past polar processes Presents integrated research on polar science coupled with meteorological, climatological and atmospheric sciences Thoroughly reviews geomagnetism and aeronomy, middle atmospheric studies including global and climate change studies Helps readers understand how Antarctica's climate has changed in the past and is being affected by 'global warming' and how might we expect its climate to change in the future?

This volume is the outcome of about 30 years of research in the field of earthquake seismology in various parts of South Asia. It comprehensively deals with topics ranging from plate tectonics to seismic waves in general. State-of-the-art techniques in earthquake location/relocation, fault plane solution, waveform inversion, seismic tomography, fractals etc. are discussed, and the results are interpreted in terms of seismic source processes in the region.

Includes report of the Inter-Union Commission on Geodynamics, Working Group 3b.

Developments in Economic Geology, 12: Geothermal Resources: An Energy Alternative focuses on the consideration of geothermal resources as alternative energy sources. The publication first elaborates on the energy outlook, basic concepts, and heat transfer. Discussions focus on temperature, heat, and its storage, heat conduction, radiation, and convection, temperatures within the earth and heat flow, volcanoes and plate tectonics, geothermal resource assessment for the U.S., and recoverability from U.S. geothermal resources. The text then ponders on geothermal systems and resources, exploration techniques, and assessment and exploitation. Concerns cover drilling technology, reservoir physics and engineering, geological and hydrological techniques, geochemical techniques, and types of geothermal systems. The book takes a look at the worldwide status of geothermal resource utilization and the Cerro Prieto geothermal field in Mexico, including geothermal manifestations, transportation of steam, and environmental factors and waste disposal. The publication is a valuable reference for alternative energy experts and researchers interested in geothermal energy resources.

Geostatistics is expanding very fast: concept- and technique-wise. Keeping in view the importance of the subject, it was thought appropriate to bring out the second edition of this book. In this process, Chapter I has been expanded In Chapter 2, incorporating more details on sampling and sampling designs. a section on simulation has been introduced with emphasis on Monte-Carlo simulation with worked out examples. In Chapter 5, a procedure to compute variogram in the case of irregular grid has been outlined. Minor modifications have been made in all other chapters. A new chapter on Introduction to Advanced Geostatistics has been introduced with discussions on universal kriging, disjunctive kriging, conditional simulation and median polish kriging. Review Questions are given at the end of each chapter to facilitate a better understanding of the subject by the student/practitioner. The software codes are put in a CD for convenience of the students/practitioner of geostatistics. A few additions have

been made in the bibliography making it more exhaustive. This contains references to the concepts and methods presented, in-depth treatment of related topics and possible extensions. My grateful thanks are due to Dr. B.S. Saini, Principal, Guru Nanak Engg. College, Hyderabad for very helpful support. I hope that this edition will be a welcome one.

Services Marketing: Text & Readings is an anthology of original works of corporate leaders from the India Services Sector. In addition, a detailed section deals with the conceptual issues of services marketing. The organization of the book is as follows: Services Marketing: Conceptual Issues Understanding Services Phenomenon, Role of Services in Economy, Services Characteristics and Marketing Implications, Marketing Mix in Services: The Traditional 4Ps, Extended Marketing Mix for Services, Differentiation Strategies, Demand Management and Productivity, Services Quality, Services Strategies Sector Specific Marketing: Challenges and Practices Tourism and Travel Services, Transportation and Logistics Services, Financial Services, Information Technology and Communication Services, Media Services, Health Care Services, Professional Services, Educational and Extension Services, Public Services

A workshop on Induced Seismicity was organized during the 27th General Assembly of the International Association of Seismology and Physics of Earth's Interior (IASPEI) in Wellington, New Zealand during January 10-21, 1994. This volume presents a collection of 16 papers accepted for publication which accrued from this workshop. The first three papers address mining activity related to induced seismicity. The fourth paper deals with water injection induced seismic activity, while the remaining 12 papers treat several aspects of water reservoir induced earthquakes. Globally, the Koyna dam creating Shivajisagar Lake in Maharashtra, India, continues to be the most significant site of reservoir-induced earthquakes. With the increase in the number of cases of induced seismicity, there is a growing concern among planners, engineers, geophysicists and geologists to understand the environment conducive to this phenomenon. While the changes in pore-fluid pressure have been identified as the key factor in inducing earthquakes, the phenomenon itself is still poorly understood. This reality thus makes the study of the induced seismicity very important and this volume timely.

Arranged alphabetically by country, this reference work lists over 26,000 universities, colleges, schools of art and music, libraries, learned societies, research institutes, museums and art galleries in over 180 countries. It is revised annually to ensure entries remain up to date.

The Deccan Plateau Covers The Region From The South Of The Vindhyas Up To The Krishna Tungabhadra Basin, Famous During The Eleventh To Eighteenth Centuries For Its Sculpture, History, And Especially For Its Importance In Diamond Mining, Cutting And Export. This Book Covers Its Role In The Cultural And Societal Advancement, In The Export Of Diamonds, Its Handlooms, Its Rich Biodiversity, Wildlife, Its Literature, Its Civilisation And Gold Exploration.

Papers presented at the conference organized by Central Mining Research Institute, Dhanbad; with reference to India.

A one-stop Desk Reference, for engineers involved in renewable energies; this is a book that will not gather dust on the shelf. It brings together the essential professional reference content from leading international contributors in the field. Material ranges from basic to advanced topics * A fully searchable Mega Reference Ebook, providing all the essential material needed

by Energy and Environmental Engineers on a day-to-day basis. * Fundamentals, key techniques, engineering best practice and rules-of-thumb together in one quick-reference. * Over 2,500 pages of reference material, including over 1,500 pages not included in the print edition

Save This Land discusses some topical issues of the environment. In each of the six chapters, a topic is chosen, the problem is analysed, the dangers are described and the solutions are presented with an appeal to all for proaction to save this land. The imminent desertification caused by deforestation of land, amply served by the monsoon, must be averted by the construction of hundreds of thousands of micro-dams. The threat of sea level rise needs to be combated by undertaking a massive project of Coastal Works. The Ganga could remain perennial only with significant reforestation and strengthening of lateral and terminal moraines in the Himalaya. "When rivers die, civilisations die," and this land faces an existential crisis because of the rivers choked to death by a vast deposition of sediments that need to be excavated for their revival. The Hirakud Dam on the Mahanadi must be revived too. Bodies of good clean drinking water are the heritage of humanity and they are getting polluted. The water quality is paramount and must be maintained.

The Arabian Sea And The Bay Of Bengal Together Account For About 3% Of The World Oceanic Area, But Receive Close To 9% Of Global River Run Off. This Relatively Large Fresh Water Input Modulates Some Important Features Of The Northern Indian Ocean. This Book Covers The Physical, Biological And Chemical Conditions That Are Unique To Our Seas. Each Paper Is Written By An Expert In The Field And Deals With Issues Like Drugs From The Ocean, Harnessing Thermal Resources, Predicting Cyclones, Pollution, Mineral And Gas Hydrate Resources.

More than 20 countries generate electricity from geothermal resources and about 60 countries make direct use of geothermal energy. A ten-fold increase in geothermal energy use is foreseeable at the current technology level. Geothermal Energy: An Alternative Resource for the 21st Century provides a readable and coherent account of all facets of geothermal energy development and summarizes the present day knowledge on geothermal resources, their exploration and exploitation. Accounts of geothermal resource models, various exploration techniques, drilling and production technology are discussed within 9 chapters, as well as important concepts and current technological developments. Interdisciplinary approach, combining traditional disciplines such as geology, geophysics, and engineering Provides a readable and coherent account of all facets of geothermal energy development Describes the importance of bringing potable water to high-demand areas such as the tropical regions

The International Year of Planet Earth (IYPE) was established as a means of raising worldwide public and political awareness of the vast, though frequently under-used, potential the Earth Sciences possess for improving the quality of life of the peoples of the world and safeguarding Earth's rich and diverse environments. The International Year project was jointly initiated in 2000 by the International Union of Geological Sciences (IUGS) and the Earth Science Division of the United Nations Educational, Scientific and Cultural Organisation (UNESCO). IUGS, which is a Non-Governmental Organisation, and UNESCO, an Inter-Governmental Organisation, already shared a long record of productive cooperation in the natural sciences and their application to societal problems, including the International Geoscience Programme (IGCP) now in its fourth decade. With its main goals of raising public awareness of, and enhancing research in the Earth sciences on a global scale in both the developed and less-developed countries of the world, two operational programmes were demanded.

In 2002 and 2003, the Series Editors together with Dr. Ted Nield and Dr. Henk Schalke (all four being core members of the Management Team at that time) drew up outlines of a Science and an Outreach Programme. In 2005, following the UN proclamation of 2008 as the United Nations International Year of Planet Earth, the “Year” grew into a triennium (2007–2009).

Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.

The past few decades have witnessed the growth of the Earth Sciences in the pursuit of knowledge and understanding of the planet that we live on. This development addresses the challenging endeavor to enrich human lives with the bounties of Nature as well as to preserve the planet for the generations to come. Solid Earth Geophysics aspires to define and quantify the internal structure and processes of the Earth in terms of the principles of physics and forms the intrinsic framework, which other allied disciplines utilize for more specific investigations. The first edition of the Encyclopedia of Solid Earth Geophysics was published in 1989 by Van Nostrand Reinhold publishing company. More than two decades later, this new volume, edited by Prof. Harsh K. Gupta, represents a thoroughly revised and expanded reference work. It brings together more than 200 articles covering established and new concepts of Geophysics across the various sub-disciplines such as Gravity, Geodesy, Geomagnetism, Seismology, Seismics, Deep Earth Processes, Plate Tectonics, Thermal Domains, Computational Methods, etc. in a systematic and consistent format and standard. It is an authoritative and current reference source with extraordinary width of scope. It draws its unique strength from the expert contributions of editors and authors across the globe. It is designed to serve as a valuable and cherished source of information for current and future generations of professionals.

The Arctic: A Barometer of Global Climate Variability provides a comprehensive source of information on all aspects of the Arctic region. Through thorough research, first-hand accounts and case studies, the book details international arctic research initiatives and native environments, including flora and fauna. Sections explore the impact of climate change, the effect of the Arctic on climate change, the environmental issues facing the region and how it is adapting. It is also a must-read source of information for polar scientists, applicable PhD students, early researchers, environmental scholars, and anyone searching for information on any aspect of the Arctic region. Users will find a great resource

that brings together all aspects of Arctic research into one concise book. Provides comprehensive coverage of numerous aspects of Arctic science, including polar light, Arctic resources and environment, climate change effects, the Arctic ocean, Arctic history and research initiatives, and environmental risks, among others Explores the Arctic region from a comparative global perspective, likening it to other regions and detailing the Arctic environment Uses computer modeling to investigate the effect of climate change on the Arctic and the Arctic's effect on global climate change

This book incorporate papers describing new and exciting results and timely reviews integrating an immense amount of knowledge in the field. Frontiers of Earth Science, the inter-and intra-disciplinary volume sets out to imbibe sixty selectively invited research papers from distinguished earth scientists. The volume incorporate sections on Mineral deposits, Climate Change and Environment, Remote Sensing, Stratigraphy and Palaeobiology, Petrology, Groundwater and Seismology and Tectonics. The book is an everlasting and invaluable documents and reference for academia, industry and planners specialized in the field of the Earth Science and for those who need updated information of current research. The volume will also be equally significant for advance level students and research scholars throughout the world.

Microearthquake Seismology and Seismotectonics of South Asia Springer Science & Business Media

In 2014, Dr. K. Radhakrishnan was named one of the top ten scientists in the world by Nature magazine—the first Indian scientist to be so honoured. Earlier that year, the Indian Space Research Organization (ISRO) successfully ran the Mars Orbiter Mission, popularly known as the 'Mangalyaan' mission. ISRO's Moon Rover, scheduled for 2018, is also Radhakrishnan's brainchild. Witness to the transformation of India's space programme in the early 1980s, Radhakrishnan cut his teeth with the SLV-3 project, the country's first satellite launch vehicle. He worked with stalwarts like Dr Vikram Sarabhai, Dr A.P.J. Abdul Kalam, Prof. Satish Dhawan and Mr Y.S. Rajan, wearing several different hats during his illustrious and challenging career. Radhakrishnan eventually turned major setbacks into roaring successes by his unfailingly belief in human endeavour and a commitment to excellence. Packed with invaluable information and insights, this fascinating memoir takes us behind the scenes of India's cutting-edge world of scientific achievement.

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