Recent Books on Geology – April 2001

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Geological Survey of India
Special Publication No.51.
Jabalpur Earthquake 22 May 1997

A Geoscientific Study

Pub : Geological Survey of India, Calcutta Year : 2000 Bib : HB
Price : US$ 25.00

Geophysical Study of the Gondwana of Eastern Maharashtra Special Publication No.47. 1999

Pub : Geological Survey of India, Calcutta Year : 1999 Bib : HB
Price : US$ 15.00

Geology of Assam
Author : A.B. Das Gupta and A.K. Biswas

The Geology of assam is ultimately the product of an ancient landmass caught up in the collision zones of three other land masses. These were originally its neighbours but drifted apart with the break-up of the Gondwanaland. Later they collided again to produce the present geological and continental framework. The book includes an updated geological map, a tectonic map of assam-arakin basinm, geological map f cachar and thirty other figures illustrating geological features of the state

Pub : Geological Society of India, Bangalore Year /; 2000 Bib : 170, xvi Price : US$ 12.00

Detailed Information on dimension Stone-granite in West Bengal

Pub : Geological Survey of India, Calcutta year : 2000 Bib : 30cm col ill, col. maps
Price : US$ 25.00

Geological Map of India
Compiler : A.K. Dasgupta & K.K. Chakravorty

Seventh Edition

'Quality of printing is good and the colours used are soft. It could have been better if adjacent geological units had contrasting colours. There are not many geographical

names particularly in the Himalayas. Many of these names may have got eliminated during map scrutiny at the Ministry of Defence.The Geological Map of India in the present 2 Million Scale should find a place in all institutions and has a very useful reference value

Pub : Geological Survey of India, Kolkata Year : 1998 Price : US$ 80.00(Set)

Writings on geology and mineralogy : Scientific papers and comments

Author : Anand K.Coomaraswamy

Editors : A.Ranganathan, K.Srinivasa Rao

This volume on Coomaraswamy's contribution to the earth sciences, quite different from his undoubted greatness as an exponent of the Perennial philosophy, will be of great interest to his innumberable admirers.

Pub : Manohar Publishers, New delhi ISBN : 8173043736 Year : 2001 Bib : 28cm 352pp HB
Price : US$ 23.50

Atlas of Granites of Southern Uttar Pradesh, India
Compilers : S. Raju and S.P. Rastogi
Series :Catalogue Series No. 4

The State of U.P. with large resources of granites in Bundelkhand and Dudhi areas needed attention. The Geological Survey of India, Northern Region undertook a three years programme for survey of these areas and identified the granite resources in terms of their commercial exploitation. It has brought to light extensive deposits of this important resource. The information so generated by the GSI in collaboration with Directorate of Geology and Mining U.P. is being presented in this dossier "Atlas of granites of southern U.P." The Atlas has also included necessary information about the parametics required for its usage as Dimension Stones.

Pub :Geological Survey of India, Kolkata Year : 2001 Bib : 141 p. ISSN : 0976-0641
Price : US$ 15.00

The Vedic Fathers of Geology
Author : Narayana Bhavanrao Pavgee

Contents: Introduction. 1. The Vedic discoveries in geology. 2. The great antiquity of the Vedas from the geological point of view. 3. Modern geological researches of the west. 4. Geological researches of the east and the west compared. 5. An episode of the Glacial Period, and the subsequent Quaternary era. Index.

This work is probably the only, certainly the first, convincingly argued treatise to establish the antiquity of Geological Science to the Vedic period in India. The author has ransacked the whole field of Vedic and ancient Sanskrit Literature and provides here thoroughly investigated proof, numerous comments and arguments in support of his theory that the Vedic seers (Rishis) were not only acquainted with the main features but perhaps with even the minute details of Geology.

"For convenient treatment of the subject the work is presented in five categories:-

The Vedic Discoveries in Geology.
The Great Antiquity of the Vedas from the Geological point of view.
Modern Geological Researches of the West.
Geological Researches of the East and the West compared.
An Episode of the Glacial Period, and the subsequent Quaternary Era.
"The author argues that the Veda contain many things not yet known, as they form a mine of inexhaustible literary wealth, that has only partially been opened, and still remains largely unexplored. In favour of his thesis the author has diligently quoted acknowledged authorities which fortify his conclusion which affirm that rishis and Vedic sages had, in truth, very wide acquaintance with, and intimate knowledge of Geology.

Pub : Cosmo Publications, New Delhi Year : 2001 Bib : x, 182p ISBN : 8177551116
Price : US$ 20.00

Precambrian Crust in Eastern and Central India
Proceedings of the International Seminar UNESCO-IUGS-IGCP-368 [Special Publication No. 57]

From the foreword: "Recent investigations under the UNESCO-IUGS-IGCP-368 project on "Proterozoic Events in East Gondwana" have led to much better understanding of the assembly, dispersion and reassembly of East Gondwana supercontinent during the Proterozoic. Participants from GSI and other organisations from India have been actively associated with this IGCP project.

"An International Seminar on "The Precambrian Continental Crust on Eastern and Central India" was jointly organised by the Geological Survey of India and the Gondwana Research group, Osaka City University, Japan during 29-30 October, 1998 to take an overview of the progress of work. The present proceedings volume contains 24 papers that were presented in the Seminar by scientists both from India and abroad. Broad themes covered were: i. Stratigraphy and Regional Correlation; ii. Petrology and Geochemistry; iii. Structure and Tectonics and iv. Economic Geology."

Pub :Geological Survey of India, Kolkata Year : 2000 Bib : 316 p., figs Price : US$ 25.00

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Petroleum Geochemistry and Exploration in the Afro-Asian Region
Proceedings of the Fifth International Conference and Exhibition on Petroleum Geochemistry and Exploration in the Afro-Asian Region /New Delhi 25-27 November 2000

Editors : Anil K. Garg, V. Banerjie, S.N. Swamy and P. Dwivedi

Pub :B.R. Publishing Corporation, New Delhi Bib : 612 p. with CD ISBN : 8170181814
Price : US$ 100.00

Monograph on Field Permeability Tests in Alluvium and Rock

Authors : C.R. Shah and D.L. Shah

The monograph on "Field Permeability tests in Alluvium and Rock" is prepared with three objectives in view, viz. (i) provide theoretical background, (ii) provide guidelines for selection of method, procedure for tests and computation of field permeability tests and (iii) provide procedure for selection of design value. After all elaborate field tests, some personal judgment has to be used to select a design value. Several case studies are given indicating procedure for actual selection of design value and its use in computation of seepage, drainage and dewatering etc. The monograph is therefore useful to designers and consultants, who are required to provide guidelines for field tests and select design value for a system.

The monograph covers mainly tests in Alluvium, where a reasonable representative value of permeability coefficient can be achieved. However, some aspect of tests in Rock are included to work out a value, where, there is no other source of information. The monograph is divided in nine chapters. Chapter 1, 2 and 3 are introductory covering necessity of tests, influence of geological factors and field investigation. Chapter 4 is devoted to classification of tests in Alluvium. A broad classification of field permeability tests in alluvium is worked out based on whether, a test is regional or a point test in a bore or a pit. Further classification is based upon whether, an aquifer is confined or unconfined, whether, a test is below water table or above water table etc. Each test is identified by notation for easy reference. For each test case, theoretical and experimental basis for computation of permeability coefficient is given in Chapter 5. Chapter 6 covers test procedure and worked example of each test case. Chapter 7 and 8 cover field permeability classification in Rock and test procedure and worked example of permeability determination in Rock. Case studies of field permeability values and procedure for selecting a design value there from are given in Chapter 9.

Pub :Scientific Publishers, Jodhpur Year : 2001 Bib : viii, 182 p. ISBN: 8172332688
Price : US$ 22.00
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National Seminar Commemorating Dr. M.S. Krishnan Birth Centenary held at Calcutta, India on 1-2 November, 1998 : Vol. I. [Special Publication No.55].

Contents: I. General: 1. Precambrian geology of India—a synoptic view/B.K. Chakrabarti. 2. Precambrian lithospheric evolution and chemical and thermal regimes of the mantle/T.M. Mahadevan. 3. Tectonic classification of Indian Peninsular Shield: review of fifty years of progress and proposal for a new scheme/A.N. Sarkar. II. Northeastern India and the Himalaya: 4. Precambrian metamorphism, magmatism and tectonic events in the Himalayan region/Arabinda Ghose. 5. The Precambrian sequences in the Western Himalaya/O.N. Bhargava. 6. Culmination zones in Eastern Himalaya/Sumit Kumar Ray. 7. Precambrians of Meghalaya: a concept/B.P. Bhattacharyya and T.K. Ray Barman. III. South India: 8. Alkaline complexes southern and eastern India—an overview/Sujit Kumar Majumder, T. Kameswara Rao and N.P. Nathan. 9. Comparative studies of the four ultramafic bodies of Northern Tamil Nadu/V. Ram Mohan, A. Kalaiselvan, B. Moses Viju Charles and S. Srinivasalu. 10. Precambrian Cambrian boundary strata in Cuddapah basin, Andhra Pradesh/M.N. Gururaja, P. Ashok Kumar, Venugopal Rao and R.H. Chavhan. 11. A review of chronological status of Chuaria—Tawuia assemblage: a case study of Bhima basin, India/A.K. Moitra, P. Ashok Kumar and D.C. Das Sarma. IV. Eastern India: 12. Crustal evolution and metallogeny in the eastern Indian craton/S.C. Sarkar. 13. North Singhbhum Proterozoic Mobile Belt, Eastern India—a review/Anupendu Gupta and Aniruddha Basu.14. Mafic ultramafic magmatism in the Eastern Indian craton—

a review/Mihir K. Bose. 15. Tectonothermal evolution of the Eastern Ghats granulite Belt, India: a metamorphic perspective/Somnath Dasgupta and Pulak Sengupta. V. Western India: 16. Precambrian terrain evolution in Rajasthan/S. Sinha Roy. 17. An update on the geology of the Delhi supergroup in Rajasthan/P. Gupta and U. Bose. 18. Polyphase granulite facies metamorphism in Rajasthan: tectonometamorphic evolution and Isotopic constraints/Fareeduddin. 19. Neoproterozoic magmatism of the Malani Igneous Suite, Western Rajasthan, India/S.K. Bhusan. 20. Metallogeny in the Aravalli-Delhi Orogenic Belt, Northwestern India/Mihir Deb. 21. The lead-zinc mineralisation in the banded gneissic complex (BGC) of Western Indian craton/D.J. Das Gupta. VI. Central India: 22. Supracrustal belts and their significance in the crustal evolution of Central India/Abhinaba Roy, H.M. Ramachandra and B.K. Bandyopadhyay

Pub : Geological Survey of India, Kolkata Year : 2000 Bib : 382 p., fig, table,
Price : US$ 17.50

Influence of Gravity on Granular Soil Mechanics

Author : R.K. Katti, Anand R. Katti and Dinesh R. Katti
Edited by C.V.J. Varma, A.R.G. Rao and S.P. Kaushish. [Publication No. 277.]

"In his work on expansive soil Dr. R.K. Katti, extended Terzaghi's definition of soil to take into account structure of solid particles, and electrical charges present on the internal and external surfaces and their interaction with dipolar nature of water whose state depends upon coulombian field generated from the charged surfaces and which results into manifestation of cohesion of different degree in soil water system indicating probable state of change of water from liquid water to solid water to explain the phenomenon of heave even under stress up to some limit.

"The entire work spanning over more than two and a half decades has been organised under suitable headings and topics for clarity and convenience in a following way, i. Stress oriented theme, ii. Deformation aspect. iii. Application to soil improvement problems. iv. Stress deformation properties of various size fractions. v. Approach to allowable bearing capacity problems, etc. In depth studies conducted on shear strength aspect of various size fractions, will help in correcting deformation equations for dilatancy and use in slope stability problem in case of rockfill dams and embankments.

"This book on 'Influence of gravity on granular soil mechanics' and the book entitled 'Behaviour of saturated expansive soil and control methods' focus the need for incorporation of Coulombian forces and influence of Newtonian earth gravitational field in the definition of soil and soil mechanics as put forward by Terzaghi in developing soil mechanics to contain entire spectrum of soil. Sphericity and roundness of earth exhibit self, equilibrating phenomenon with respect to impressed stress.

"This treatise provides guidelines for practising engineers, basis for analysis for consultants, a new direction for conducting research taking into account thermodynamic properties of matter for research workers and the sequentially arranged topics help graduate students to assimilate the subject on more scientific basis

Pub :Central Board Irrigation and Power, New Delhi Year : 2000 Bib : 467 p.
Price : US$ 50.00

International Conference Tunnelling Asia '2000 : Need for Accelerated Underground Construction – Issues and Challenges (26-29 September, New Delhi, India) : Proceedings/

editors : S.P. Kaushish and T. Ramamurthy. Organised by Adhering Committee of International Tunnelling Association (India).

Contents: I. Rock mass classification, testing and measurement: 1. Numerical approaches alongwith—a case study/B. Prabhakar. 2. Prediction of engineering behaviour of jointed block mass/T. Ramamurthy, K. Seshagiri Rao and Mahendra Singh. 3. Assessment of in-situ stresses and deformability of rock mass in water supply tunnels in Mumbai, Maharashtra/B.K. Saha, A.K. Ghosh, J.M. Shirke and I. Azaraiah. 4. Deformability of rock mass by different methods inside underground desilting chamber/Rajbal Singh and A.K. Dhawan. 5. Observational approach for stability of tunnels/A. Swarup, R.K. Goel and V.V.R. Prasad. II. Rock Mass Analysis: 6. Finite element analysis of underground caverns of Nathpa Jhakri Hydel Project/M.N. Bagde. 7. Equivalent material modelling to predict the stability of underground openings/A.H. Ghazvinian, K.K. Gupta and T. Ramamurthy. 8. Effect of depth on support pressures and closures in tunnels/R.K. Goel and J.L. Jethwa. 9. Problems in numerical assessment of surface settlement due to shallow tunnelling/Prabhat Kumar. 10. Checking accuracy of numerical models/Rajbal Singh, Rajinder Bhasin and Axcel Makurat. III. Highway tunnels and underground storage: 11. Underground storage in Zimbabwe/Anders Claesson. 12. Largest-sized slurry type shield tunnelling through extremely soft ground : Trans-Tokyo Bay Highway Project/Shouei Ikeda, Masayoshi Okazaki and Toru Goto. 13. Marine Outfalls Project—issues and challenges/K. Munz and G.R. Haridas. 14. The Sture LPG Storage Project/Bengt Niklasson, Bjorn Stille and Lars Osterlund. 15. Highway tunnels designed to meet international standards/D.B. Powell, E. Hanson and D. Leverenz. IV. Metro tunnelling: 16. Cairo Metro Line 2 – construction problems and their solutions/A.J. Burchell. 17. Prospects of undergrounds facilities for Delhi/A.K. Dube. 18. Design strategies and planning for fire and life safety in Delhi metro/A.K. Gupta and Abhay Bakre. 19. Renewing the urban infrastructure : the rebuilding of the southfield sewer/Awni Qaqish, Bharat Doshi, Jerome C. Neyer and Keith M. Swaffar. 20. Pre-condition survey and monitoring of the structures likely to be affected during tunnelling of Delhi metro/Mangu Singh and Kamal Nayan. 21. Environmental protection in Delhi Mass Rapid Transport System (MRTS) Project/S.A. Verma. 22. Environment control system in Delhi metro/B.P. Verma. V. Tunnelling in complex geological settings: 23. Case studies of railway tunnelling on Udhampur-Katra section/Rakesh Chopra, Sanjeev Kumar Lohia, Pramod Sharma and Achal Khare. 24. Mining mechanism for tunnelling/P.K. Pawar and V.V. Gaikwad. 25. Tunnelling through rock cover of more than 1000 m—a case study/G.S. Pundhir, A.K. Acharya and A.K. Chadha. 26. Tunnelling in Himalayan geology – a case study of railway tunnel/Jagdip Rai. 27. Tunnelling experiences on Jammu-Udhampur rail link/S.R. Ujlayan and Vinay Tanwar. 28. Influence of tunnel depth on its behaviour during construction/Leslaw Zabuski and Kazimierz Thiel. VI. Shotcreting and micro tunnelling: 29. Use of polyurethane grouts in Romeriksporten, Norway—a case study/Helen Anderson and P. Borchardt. 30. Early experiences of micro-tunnelling in India/J.D. Broomfield. 31. Practical application of steel fibre reinforced shotcrete in desilting chambers of Nathpa Jhakri Hydroelectric Project/Subhash Mahajan. 32. Use of Alkali free accelerators in Tala Hydroelectric Project/P.K. Tripathy, Himanshu Kapadia and Shailesh Kumar. 33. Use of steel fibers as reinforcement for underground concrete structures/Marc Vandewalle. 34. Construction of inclined tunnel for HRT of Ranganadi Hydroelectric Project and a Typical Adit Junction to inclined tunnel—a case study/R.D. Varangaonkar. 35. Fiber reinforced shotcrete—a comparison between steel fiber and the new synthetic fiber/Nick Varley. VII. Special tunnelling techniques: 36. Controlled blasting for removal of concrete plugs in draft tube

tunnels at Sardar Sarovar Project/G.R. Adhikari, A.I. Theresraj, R. Balachander and R.N. Gupta. 37. Under water lake piercing in Koyna Hydro Electric Project Stage-IV/S.N. Huddar, V.M. Soman and V.M. Kulkarni. 38. Faster and economic tunnelling by conventional drilling—blasting/S.R. Kate and Vinod Kumar. 39. Various aspects of ventilation system for underground works—experiences and useful suggestions/M.M. Madan. 40. ALP Transit Gothard base tunnel, Sedrun Access and ventilation shaft/Robert Meier. 41. Tunnelling at Pond Dam—a case study/R.R. Oberoi and G.D. Gupta. 42. Excavation and supporting of transformer hall in poor rock conditions (Nathpa Jhakri Hydroelectric Project 15000 MW)—a case study/V.K. Sharma, Kranti Gupta and Parveen Puri. VIII. Innovative construction methodologies: 43. An innovative constructive method for the retaining structures of the excavation of the underground parking Dr. E neas De Carvalho Aguiar, Ni Sao Paulo, Brazil/E.M. Maffei Carlos, H.H.S. Goncalves and M.C. Guazzelli. 44. Experience on Bhima Sina Feeder Tunnel/V.V. Gaikwad and Chandrashekhar Hengekar. 45. Construction of diversion tunnel for Doyang Hydroelectric Project—a case study/R.K. Khali and R.D. Varangaonkar. 46. Remining of power tunnel face-3 in Chamera Project Himachal Pradesh—a case study/B.C.K. Mishra and A.K. Mishra. 47. Construction methodology for desilting caverns of 1020 MW Tala Hydroelectric Project, Western Bhutan/Sanjay K. Turki and Vinod K. Rajora. 48. Construction of Bogada tunnels of South Central Railway (India)/K.J. Singh. 49. Experience on the use of raise borer at Dulhasti Hydroelectric Project/D. Paul Verma and M.K. Goel. IX. Special aspects: 50. New Austrian Tunnelling Method (NATM) tunnelling in BASOCHHU Hydroelectric Project, Bhutan/S.K. Desai and Rajiv Badal. 51. Tunnelling experience at Portal II of Arphal tunnel/V.V. Gaikwad and P.K. Pawar. 52. Risk analysis and decision making techniques for large underground projects/A.K. Mishra, B.C.K. Mishra and Ajay Mathur. 53. Administering cost in soil tunnelling/G. Narayanan. 54. Managing hazards in urban tunnelling/R. Prasad and K. Nayan. 55. Underground tunnelling works with Tala Hydroelectric Project Authority/P.E. Sagar Lal. 56. Selection of optimum diameter of tunnels for hydro generating stations/M.G. Sharma and J.D. Sharma. 57. Delhi metro cut and cover tunnels planning for major utility X-ing locations/Mangu Singh and Rajesh Agarwal. 58. Trenchless technology in India—an overview/A.K. Sarkar. 59. Prediction of engineering classification of wedge terrains of Eastern Ghats/K. Rama Sarma. 60. Benchmarking measures for TBM and DBM tunnelling/A. Srividya and B.A. Metri. Author index.

Pub : Central Board of Irrigation and Power, New Delhi Year ; 2000 Bib : x, 544p Price : US$ 50.00

The Geology and Petrology of Eastern Singhbhum and Surrounding Areas Series : Memoirs Geological Survey of India : Volume LXIX, Part 2 :
Authors: J.A. Dunn and A.K. Dey.

Reprint.

Contents: I. General : 1. Introduction. 2. Topography. 3. Flora. 4. Fauna. 5. Inhabitants. II. Historical sketch of Geological work in Southern Chota Nagpur. III. General Geology : 1. The Sequence. 2. Structural geology. 3. Faults. IV. The Iron-ore series: 1. The sequence. 2. North of the shear zone. 3. South of the shear zone. V. The Chaibasa stage : 1. The central geo-anticlinc. 2. Mica-schists. 3. Quartz-granulite and kyanitc-quartz granulites. 4. Along the thrust zone. 5. North of the Dalma syncline. 6. Mica-schists. 7. Tuffs. 8. Quartzite. VI. The Iron-ore stage : 1. North of the Dalma syncline. 2. Phyllites

and mica-schists. 3. Tuffs. 4. Hematite and manganese rocks. 5. Secondary quartzites. 6. Sandstone-quartzite. 7. South of the Dalma syncline. 8. Phyllites. 9. Tuffs. 10. Hematitc and manganese rocks. 11. Sandstone-quartzite. 12. South of the geo-anticline. 13. Phyllites. 14. Tuffs. 15. Hematite rocks. 16. Secondary quartzite. 17. Arkose and conglomerate. VII. Basic igneous rocks associated with the iron-ore series : 1. General 2. In the geo-anticline. 3. North of the Dalma syncline. 4. Along the thrust zone. 5. South of the thrust zone. 6.Finer-grained types. 6. Coarser-grained types. 7. Secondary quartzites in the basic igneous rocks. VIII. Dalma lava flows : 1. The lavas. 2. Associated phyllites. IX. The Dhanjori group : 1. Quartzite and conglomerate. 2. Lavas. X. The Granitic rocks : 1. Diorite. 2. Singhbhum granite. 3. Kuilapal granite. 4. Chota Nagpur granite. 5. Albitite. 6. Granophyre and soda granite. 7. Mayurbhanj and Southern Dhalbhum. 8. Along the thrust zone. 9. Origin. 10. Relations between the granitic rocks. XI. Vein rocks : 1. Porphyry dykes. 2. Pegmatite veins. 3. Tourmaline-quartz veins. 4. Quartz veins. XII. Newer dolerite : 1. Description. 2. Mehanics of intrusion. XIII. Tertiary to recent deposits : 1. Tertiary gravels. 2. Laterite. 3. Recent alluvium. XIV. Correlation. XV. Some aspects of Metamorphism and Magmation : 1. Bibliography. 2. Locality index. 3. Subject index.

Pub : Geological Survey of India, Kolkata Year : 2001 Bib : iv, 456p
Price : US$ 12.00

The Economic Geology and Mineral Resources of Bihar Province Author :J.A. Dunn. Series : Memoirs of the Geological Survey of India : Volume LXXVIII

Reprint

Contents: I. Economic aspects of geology in Bihar: 1. Introduction. 2. Physiography. 3. Geology. 4. Geology in engineering, forestry, and agriculture. 5. Localisation of minerals, and prospecting. 6. The relation of the state to the application of geological knowledge. II. The mineral industry of Bihar: 7. Abrasives and grinding materials. 8. Alkali salts. 9. Apatite. 10. Asbestos. 11. Barytes. 12. Bauxite. 13. Building materials. 14. Chromite. 15. Clays. 16. Coal. 17. Copper. 18. Glass-making materials. 19. Gold. 20. Iron ores. 21. Kyanite. 22. Lead and silver. 23. Limestone. 24. Manganese. 25. Mica. 26. Mineral, fertilisers. 27. Mineral pigments. 28. Mineral waters. 29. Mineral wool. 30. Refractory materials. 31. Sand. 32. Steatite (soapstone). 33. Sulphur. 34. Vanadium. 35. Mineral occurrences of little or no economic value. Locality and mineral index. General index.

Pub : Geological Survey of India, Kolkata Year : 2001 Bib : 238 p. Price : US$ 15.00

Journal of the Geological Society of India

Monthly
Editor : M. Ramakrishnan

This is a premier earth science journal of India, which publishes peer-reviewed articles under the category of Review papers, Research papers, Short Communications, Notes, Corporate News, Correspondence, Discussion and Book Review. The articles published deal with all aspects of Earth System Science.

The journal is indexed in Current Contents, Mineralogical Abstracts, Chemical Abstracts and International Bibliography of Periodical Literature. The journal is published every month, constituting two volumes per year.

Pub : Geological Society of India, Bangalore
Sub Price : US$ 250.00 (AIR MAIL) - Institutional

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Current Issue Vol.58 No.3.

September 2001

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277pp 30cm

Precambrian Crustal Evolution and Mineralisation in India(PEM 2001 Seminar Volume)
Editor : S.P. Singh

What distinguished this volume from many other recently published proceedings of group discussions is the large number of Contributions that provide data and maps from reports of the GSI, either unpublished or are not widely known. The volume has 36 papers, predominantly devoted to the NW, Central and East Indian Shield - 8 Papers are related to Stratigraphy and sedimentation, 8 papers on Magmatism and Metamorphism, 2 papers on structure and dynamics, 15 papers on metallogeny And one paper each on geothermal energy, emerald industries and Antarctic expedition.

Pub : South Asian Association of Economic Geologists, Patna, India Year : 2001 Price : US$ 70.00

Sahyadri
The Great Escarpment of the Indian Subcontinent
Editors : Y Gunnell and B.P. Radhakrishna

Series : Geological Society of India : Memoirs : 47 (1)

This memoir is aimed at presenting the morphology and long-lived uplift history of the Western Ghats (known by the name Sahyadri, in early Indian Literature), the elevated relief barrier bordering the Western Continental Margin of India. It is a world class landform comparable to many other well-known rifted margins of the world. Emphasis is on rifting, scarp Retreat on a grand scale and the geomorphological and lithospheric after-effects of uplift causing the removal of large quantities of
Weathered materials and their deposition in marginal sedimentary basins. All of these are factors of great significance in the evolution of The south Indain landscape. All processes, physical, chemical and biological are considered and interlinked within the framework of geological time, Thus providing a synthesis which has important implications for the distribution pattern of rain-bearing monsoonic winds and soil geography, on which So much of Indian agriculture depends.

The memoir contains a number of original contributions and is structed by editorial review chapters and summaries.
A Consolidated bibliography is given at the end of the memoir and is the first of its kind for the Western Continental margin of India. This memoir should serve as a port of entry to anyone interested in pursuing research on landscape development in peninsular india or in using the Indian Example as a reference for understanding the configuration of other elevated continental margins of the world

Pub : Geological Society of India, Bangalore Year : 2001 Bib : xxii, 717pp PB
Price : US$ 50.00

Handbook of Placer Mineral Deposits

Editor : G. Victor Rajamanickam

This book has the study material about Distribution, Mineralogy, Geochemistry, Environment Legislation, Economics and Provenance

Contents :

I. Distribution

1. Placer Enriched Tidal Sectors of Streams Around Purnagad

Pub : New Academic Publishers, Delhi Year : 2001 Bib : viii, xxxvi, 327pp 25cm ISBN : 818677209x Price : US$ 30.00

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