



that there were in fact other 'islands' out there. In many ways, modern astronomy began with this discovery, and the story of galaxies is therefore the story of modern astronomy. Since then, many exciting discoveries have been made about our own galaxy and about those beyond: how a supermassive black hole lurks at the centre of every galaxy, for example, how enormous forces are released when galaxies collide, how distant galaxies provide a window on the early Universe, and what the formation of young galaxies can tell us about the mysteries of Cold Dark Matter. In this Very Short Introduction, renowned science writer John Gribbin describes the extraordinary things that astronomers are learning about galaxies, and explains how this can shed light on the origins and structure of the Universe. **ABOUT THE SERIES:** The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

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This book explains why we have such a vast array of environments across the cosmos and on our own planet, and also a stunning diversity of plant and animal life on earth.

Environmental degradation has been a major concern since past few decades, because of economic growth and development across the world has caused major impacts on the Earth's ecosystems and natural resources to an extent that can limit the well-being of future generations. India has recently started realizing the importance of environment and the environmental education. Following the 2001 Supreme Court directive, the environmental education has been or is being included in the curriculum right from the school stage to the College/ University level. This book covers the syllabi of all Indian Technical Universities and other Universities for different disciplines, may it be in the name of environmental studies, environmental science, ecology or natural resource management. This book is written to bring about an awareness of a variety of environmental concerns and deals from concepts through impacts, mitigation and management.

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*Environmental And Engineering Geology is a component of Encyclopedia of Environmental and Ecological Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The Theme on Environmental and Engineering Geology with contributions from distinguished experts in the field discusses matters of great relevance to our world such as: engineering and environmental geology, and their importance in our life. It also includes a discussion of some new applications of geoscience, such as medical geology, forensic geology, use of underground space for human occupancy, and geoinformatics. These four volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs.*

*Accessibly written by a team of international authors, the Encyclopedia of Environmental Change provides a gateway to the complex facts, concepts, techniques, methodology and philosophy of environmental change. This three-volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field. The encyclopedia includes all of the following aspects of environmental change: Diverse evidence of environmental change, including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide-ranging local, regional and global impacts from the polar regions to the tropics Responses of geo-ecosystems and human-environmental systems in the face of past, present and future environmental change Approaches, methodologies and techniques used for reconstructing, dating, monitoring, modelling, projecting and predicting change Social, economic and political dimensions of environmental issues, environmental conservation and management and environmental policy Over 4,000 entries explore the following key themes and more: Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Landuse change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one-line definitions to short essays, making this an invaluable companion for any student of physical geography, environmental geography or environmental sciences.*

*The thoroughly revised & updated 2nd edition of "The Geography Compendium" has been prepared with enormous efforts for all IAS aspirants, State PCS and other competitive exams. The book has been written with the approach to provide the best preparatory material for the exam. The book not only covers 100% syllabus but is also covered with Mind Maps, Infographics, Charts, Tables and latest exam pattern MCQs. The emphasis of the book has been on conceptual understanding and better retention which are important from the point of view of the exam. The book captures most of the important questions with explanations of the past years of the IAS Prelim exam, CDS, NDA and other competitive exams distributed in the various chapters. The book is divided into 10 chapters followed by 2 levels of exercises with 1000+ Simple MCQs & statement based MCQs.*

*Environmental Studies*

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*Earth Science Quick Study Guide & Workbook*

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Groundwater is essential to life and to maintaining Earth's water cycle. In the face of growing threats to this invaluable resource, recent advances in research and analysis - notably in numerical simulation and data processing with computers - are bringing rapid changes in dynamic methodology for groundwater management and modeling. This book contains the latest updates from the field of groundwater science and engineering, organized around five major topics: Optimization of groundwater resources in basins, Groundwater pollution and remediation technologies, Underground development and groundwater technologies, Interaction between surface and subsurface water, and Reliability of numerical methods and scaling in geohydraulics. This collection of more than 80 papers by leading specialists provides a valuable source of information for researchers, engineers, and students in the field of groundwater resources and management.

Geology, the Environment, and the Universe

Environment Everyone

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Resources in education

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Practices, Crosscutting Concepts, and Core Ideas