

# Environmental Science Anna University Question Papers

Social Ecology and Education addresses "ecological understanding" as a transformative educational issue: a learning response to emerging insights into social-ecological relationships and the future of life on our planet. In the face of the existential threats posed by climate change, loss of biodiversity, pandemics and the associated ecological and social challenges; there is a need to extend our responses beyond scientific inquiry and technological initiatives. This book seeks to move the dialogue towards a deeper and broader understanding of the complexities of the issues involved. To achieve this, the book discusses issues rarely addressed through programs in "Education for Sustainability" and "Environmental Education," such as student defined knowledge systems, deep engagement with the implications of indigenous understandings, climate change as symptomatic of broad epistemological problems, social disengagement and differentiated barriers to meaningful change. This work is enriched by its focus on the learning and the learning systems that have led to our current predicament. This book seeks to initiate considerations of this kind, to invigorate education for sustainable, equitable, healthy and meaningful futures. As such, this book will be of great interest to undergraduate and postgraduate students in a range of education and environmental courses. This book is designed for students of GTU studying the

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course on Environmental Science. Maintaining a holistic approach throughout, the book offers easy and logical comprehension for understanding. Concepts are explained through a variety of illustrations which will enable the students to grasp the subject easily.

Highlights: 1. Complete coverage of the new GTU syllabus 2. Pictorial representation of topics for easy retention and understanding 3. Variety of chapter-end questions for students to ace their examinations 4.

Additional Solved Gujarat Technical University Examination Questions from previous year

The ecosystem approach, broadly understood as a legal and governance strategy for integrated environmental and biodiversity management, has been adopted within a wide variety of international environmental legal regimes and provides a narrative, a policy approach and in some cases legally binding obligations for States to implement what has been called a 'new paradigm' of environmental management. In this last respect, the ecosystem approach is also often considered to offer an opportunity to move beyond the outdated anthropocentric framework underpinning much of international environmental law, thus helping re-think law in the Anthropocene. Against this background, this book addresses the question of whether the ecosystem approach represents a paradigm shift in international environmental law and governance, or whether it is in conceptual and operative continuity with legal modernity. This central question is explored through a combined genealogical and biopolitical framework, which reveals how the ecosystem approach is the result of multiple

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contingencies and contestations, and of the interplay of divergent and sometimes irreconcilable ideological projects. The ecosystem approach, this books shows, does not have a univocal identity, and must be understood as both signalling the potential for a decisive shift in the philosophical orientation of law and the operationalisation of a biopolitical framework of control that is in continuity with, and even intensifies, the eco-destructive tendencies of legal modernity. It is, however, in revealing this disjunction that the book opens up the possibility of moving beyond the already tired assessment of environmental law through the binary of anthropocentrism and ecocentrism.

International experts provide a comprehensive picture of the principles, concepts and methods that are applicable to problems originating from the interaction between the living/non-living environment and mankind. Both the analysis of such problems and the way solutions to environmental problems may work in specific societal contexts are addressed. Disciplinary approaches are discussed but there is a focus on multi- and interdisciplinary methods. A large number of practical examples and case studies are presented. There is special emphasis on modelling and integrated assessment. This book is different because it stresses the societal, cultural and historical dimensions of environmental problems. The main objective is to improve the ability to analyse and conceptualise environmental problems in context and to make readers aware of the value and scope of different methods. Ideal as a course text for students, this book will also be of

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interest to researchers and consultants in the environmental sciences.

Provides information on the duties, salaries, employment prospects, and skills, training, or education necessary for more than sixty-five jobs that focus on nature and the environment.

The Environment in Anthropology presents ecology and current environmental studies from an anthropological point of view. From the classics to the most current scholarship, this text connects the theory and practice in environment and anthropology, providing readers with a strong intellectual foundation as well as offering practical tools for solving environmental problems. Haenn, Wilk, and Harnish pose the most urgent questions of environmental protection: How are environmental problems mediated by cultural values? What are the environmental effects of urbanization? When do environmentalists' goals and actions conflict with those of indigenous peoples? How can we assess the impact of "environmentally correct" businesses? They also cover the fundamental topics of population growth, large scale development, biodiversity conservation, sustainable environmental management, indigenous groups, consumption, and globalization. This revised edition addresses new topics such as water, toxic waste, neoliberalism, environmental history, environmental activism, and REDD (Reducing Emissions from Deforestation and Forest Degradation), and it situates anthropology in the multi-disciplinary field of environmental research. It also offers readers a guide for developing their own plan for environmental action. This

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volume offers an introduction to the breadth of ecological and environmental anthropology as well as to its historical trends and current developments. Balancing landmark essays with cutting-edge scholarship, bridging theory and practice, and offering suggestions for further reading and new directions for research, *The Environment in Anthropology* continues to provide the ideal introduction to a burgeoning field.

This book is devoted to the Anthropocene, the period of unprecedented human impacts on Earth's environmental systems, and illustrates how Geographers envision the concept of the Anthropocene. This edited volume illustrates that geographers have a diverse perspective on what the Anthropocene is and represents. The chapters also show that geographers do not feel it necessary to identify only one starting point for the temporal onset of the Anthropocene. Several starting points are suggested, and some authors support the concept of a time-transgressive Anthropocene. Chapters in this book are organized into six sections, but many of them transcend easy categorization and could easily have fit into two or even three different sections. Geographers embrace the concept of the Anthropocene while defining it and studying it in a variety of ways that clearly show the breadth and diversity of the discipline. This book will be of great value to scholars, researchers, and students interested in geography, environmental humanities,

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environmental studies, and anthropology. The chapters in this book were originally published as a special issue of the journal *Annals of the American Association of Geographers*.

Human societies have always been deeply interconnected with our ecosystems, but today those relationships are witnessing greater frictions, tensions, and harms than ever before. These harms mirror those experienced by marginalized groups across the planet. In this novel book, David Naguib Pellow introduces a new framework for critically analyzing Environmental Justice scholarship and activism. In doing so he extends the field's focus to topics not usually associated with environmental justice, including the Israel/Palestine conflict and the Black Lives Matter movement in the United States. In doing so he reveals that ecological violence is first and foremost a form of social violence, driven by and legitimated by social structures and discourses. Those already familiar with the discipline will find themselves invited to think about the subject in a new way. This book will be a vital resource for students, scholars, and policy makers interested in transformative approaches to one of the greatest challenges facing humanity and the planet.

This book, which gathers the outcomes of the 9th International Conference on Methodologies and Intelligent Systems for Technology Enhanced Learning and its related workshops, expands on the

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topics of the evidence-based TEL workshop series in order to provide an open forum for discussing intelligent systems for TEL, their roots in novel learning theories, empirical methodologies for their design and evaluation, stand-alone solutions, and web-based ones. The Conference was hosted by the University of Salamanca and was held in Ávila (Spain) from the 26th to the 28th of June 2019. Its goal was to bring together researchers and developers from industry, education, and the academic world to report on the latest scientific research, technical advances, and methodologies. We wish to thank the sponsors: IEEE Systems Man and Cybernetics Society, Spain Section Chapter and the IEEE Spain Section (Technical Co-Sponsor), IBM, Indra, Viewnext, Global Exchange, AEPIA, APPIA and AIR institute.

A century ago, the idea of indigenous people as an active force in the contemporary world was unthinkable. It was assumed that native societies everywhere would be swept away by the forward march of the West and its own peculiar brand of progress and civilization. Nothing could be further from the truth. Indigenous social movements wield new power, and groups as diverse as Australian Aborigines, Ecuadorian Quichuas, and New Zealand Maoris, have found their own distinctive and assertive ways of living in the present world. Indigenous Experience Today draws together

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essays by prominent scholars in anthropology and other fields examining the varied face of indigenous politics in Bolivia, Botswana, Canada, Chile, China, Indonesia, and the United States, amongst others. The book challenges accepted notions of indigeneity as it examines the transnational dynamics of contemporary native culture and politics around the world.

Environmental issues are inherently interdisciplinary, and environmental academic programs increasingly use an interdisciplinary approach. This timely book presents a core framework for conducting high quality interdisciplinary research. It focuses on the opportunities rather than the challenges of interdisciplinary work and is written for those doing interdisciplinary work (rather than those studying it). It is designed to facilitate high quality interdisciplinary work and the author uses illustrative examples from student work and papers published in the environmental literature. This book's lucid, problem-solving approach is framed in an accessible easy-to-read style and will be indispensable for anyone embarking on a research project involving interdisciplinary collaboration. Readership: graduate students, advanced undergraduates, and researchers involved in the interface between human and natural environmental systems

How might understandings of environmentalism and the environmental humanities shift by incorporating

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Islamic perspectives? In this book, Anna M. Gade explores the religious and cultural foundations of Islamic environmentalisms. She blends textual and ethnographic study to offer a comprehensive and interdisciplinary account of the legal, ethical, social, and empirical principles underlying Muslim commitments to the earth. Muslim Environmentalisms shows how diverse Muslim communities and schools of thought have addressed ecological questions for the sake of this world and the world to come. Gade draws on a rich spectrum of materials—scripture, jurisprudence, science, art, and social and political engagement—as well as fieldwork in Indonesia and Southeast Asia. The book brings together case studies in disaster management, educational programs, international development, conservation projects, religious ritual and performance, and Islamic law to rethink key theories. Gade shows that the Islamic tradition leads us to see the environment as an ethical idea, moving beyond the established frameworks of both nature and crisis. Muslim Environmentalisms models novel approaches to the study of religion and environment from a humanistic perspective, reinterpreting issues at the intersection of numerous academic disciplines to propose a postcolonial and global understanding of environment in terms of consequential relations. When facing momentous societal change, such as the transformation to a sustainable world, the sciences must

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impress their importance upon the public and convince scientific and policy institutions in order to obtain the means to carry out their mission. This book represents the first attempt to integrate disciplinary views on the topic of transformation towards sustainability.

"New Directions in Border Research Methodology, Ethics, and Practice looks at the recent stigmatization of immigrants since the US began focusing on securing its border with Mexico in 2001. Attempting to answer ethical questions concerning border research methodology, these researchers explore the political and social implications of U.S. immigration policies and programs"--Provided by publisher.

This collection of ethnographic and interpretive essays fundamentally alters the debate over indigenous land claims in Southeast Asia and beyond. Based on fieldwork conducted in Malaysia and Indonesia during the 1980s and 1990s, these studies explore new terrain at the intersection of environmental justice, nature conservation, cultural performance, and the politics of making and interpreting claims. Calling for radical redefinitions of development and ownership and for new understandings of the translation of culture and rights in politically dangerous contexts—natural resource frontiers—this volume links social injustice and the degradation of Southeast Asian environments. Charles Zerner and his colleagues show how geographical areas once viewed as wild and undeveloped are actually cultural artifacts shaped by complex interactions with human societies. Drawing on richly varied sources of evidence and interpretation—from trance dances, court

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proceedings, tree planting patterns, marine and forest rituals, erotic poems, and codifications of customary law, Culture and the Question of Rights reveals the ironies, complexities, and histories of contemporary communities' struggles to retain their gardens, forests, fishing territories, and graveyards. The contributors examine how these cultural activities work to both construct and to lay claim to nature. These essays open up new avenues for negotiating indigenous rights against a background of violence, proliferating markets, and global ideas of biodiversity and threatened habitat. Contributors. Jane Atkinson, Don Brenneis, Stephanie Fried, Nancy Peluso, Marina Roseman, Anna Tsing, Charles Zerner

Once pollutants are released into the atmosphere, they cannot be removed easily nor can the reaction with atmospheric constituents be ceased. However, through enhancing our understanding of control technology, further addition of pollution can be forestalled. Through better understanding of innovations in the field of air pollutant control technology and modelling, better cost-effective control equipment can be designed to achieve a clean biosphere for sustainable life in the near future. Global Perspectives on Air Pollution Prevention and Control System Design is a pivotal reference source that provides vital research on the understanding of the basic concepts of air pollution, modeling concepts, development of various models for source-specific pollutants, and dispersion. While highlighting topics such as climate change, fossil fuels, and motor vehicle emissions, this publication explores the links between

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the global impact on climate change and modeling concepts of indoor air pollutants. This book is ideally designed for professors, students, researchers, environmental agencies, environmentalists, policymakers, and government officials, seeking current research on future solutions in critical fields of air pollution.

Nanotechnology - technology at the molecular level - is held out by many as the Holy Grail for creating a trillion dollar economy and solving problems from curing cancer to reprocessing waste into products and building superfast computers. Yet, as with GMOs, many view nanotech as a high risk genie in a bottle that once uncorked has the potential to cause unpredictable, perhaps irreversible, environmental and public health disasters. With the race to bring products to market, there is pressing need to take stock of the situation and to have a full public debate about this new technological frontier. Including contributions by renowned figures such as Roland Clift, K. Eric Drexler and Arpad Pusztai, this is the first global overview of the state of nanotech and society in Europe, the USA, Japan and Canada, examining the ethics, the environmental and public health risks, and the governance and regulation of this most promising, and potentially most dangerous, of all technologies.

Environmental Science & Engineering

This book is the first intersectionality-mainstreamed textbook written for introductory political science courses. A Companion to the History of American Science offers a collection of essays that give an authoritative overview of

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the most recent scholarship on the history of American science. Covers topics including astronomy, agriculture, chemistry, eugenics, Big Science, military technology, and more Features contributions by the most accomplished scholars in the field of science history Covers pivotal events in U.S. history that shaped the development of science and science policy such as WWII, the Cold War, and the Women's Rights movement

This major reference work the first of its kind provides a comprehensive and authoritative introduction to the large and growing literature on contingent valuation. It includes entries on over 7,500 contingent valuation papers and studies from over 130 countries covering both the published and grey literatures. This book provides an interpretive historical account of the development of contingent valuation, the most commonly used approach to placing a value on goods not normally sold in the marketplace. The major fields catalogued here include culture, the environment, and health application. This bibliography is an ideal starting point for researchers wanting to find other studies that have valued goods or used techniques similar to those they are interested in. For those wanting to conduct meta analyses, the book will serve as an invaluable guide to source material. For those wanting to conduct meta analyses, the book will serve as an invaluable guide to source material. In addition to the print edition we offer access, for purchasers of the book, to a website providing the contents of as a searchable Word document and in a variety of standard bibliographic database forms.

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Contingent Valuation is an indispensable reference source for researchers, scholars and policymakers concerned with survey approaches to the problem of environmental valuation.

Holocene Climate Change and Environment presents detailed, diverse case studies from a range of environmental and geological regions on the Indian subcontinent which occupies the central part of the monsoon domain. This book examines Holocene events at different time intervals based on a new, high-resolution, multi-proxy records (pollen, spores, NPP, diatoms, grain size characteristics, total organic carbon, carbon/nitrogen ratio, stable isotopes) and other physical tools from all regions of India. It also covers new facilities in chronological study and luminescence dating, which have added a new dimension toward understanding the Holocene glacial retreats evolution of coastal landforms, landscape dynamics and human evolution. Each chapter is presented with a unified structure for ease of access and application, including an introduction, geographic details, field work and sampling techniques, methods, results and discussion. This detailed examination of such an important region provides key insights in climate modeling and global prediction systems. Provides data and research from environmentally and geologically diverse regions across the Indian subcontinent Presents an integrated and interdisciplinary approach, including considerations of human impacts Features detailed case studies that include methods and data, allowing for applications related to research and global modeling For years environmentalists thought natural resources

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could be best protected by national legislation. But the poor outcomes of this top-down policy have led conservation professionals today to regard local communities as the agents of conservation efforts. According to a recent survey, more than fifty countries report that they pursue partnerships with local communities in an effort to protect their forests. Despite the recent popularity of a community-based approach, the concept of community rarely receives the attention it should get from those concerned with resource management. This balanced volume redresses the situation, demonstrating both the promise and the potential dangers of community action. Although the contributors advocate community-based conservation, they examine the record with a critical eye. They pay attention to the concrete political contexts in which communities emerge and operate. Understanding the nature of community requires understanding the internal politics of local regions and their relationship to external forces and actors. Especially critical are issues related to ethnicity, gender, and the state.

Environmental Science And Engineering Pertain To A Systematic Analysis Of The Natural And Man-Made World Encompassing Various Scientific, Economic, Social And Ethical Aspects. Human Impacts Leading To Large-Scale Degradation Of The Environment Have Aroused Global Concern On Environmental Issues In The Recent Years. The Apex Court Has Hence, Issued Directive To Impart Environmental Literacy To All. In This Book The Fundamental Concepts Of Environmental Science And Engineering Have Been Introduced And

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Analyzed In A Simple Manner Strictly As Per The Anna University Iind And Iird Semester Syllabus. Besides The Undergraduate Students Of All Disciplines The Book Will Also Be Useful For Those Appearing In Various Competitive Exams Since Environmental Issues Now Find A Focus In Most Of Such Examinations. The Contents Of The Book Will Be Of Interest To All Educationists, Planners And Policy Makers. Key Features Of The Book Include A Simple And Holistic Approach With Illustrations, Tables And Specific Case Studies Mainly In The Indian Context. The Basic Terminologies Have Been Defined In The Text While Introducing The Topics And Some Useful Terms Mentioned In The Text Have Been Explained In The Glossary For An Easy Grasp By Students Of All Disciplines.

The Art of Teaching Science emphasizes a humanistic, experiential, and constructivist approach to teaching and learning, and integrates a wide variety of pedagogical tools. Becoming a science teacher is a creative process, and this innovative textbook encourages students to construct ideas about science teaching through their interactions with peers, mentors, and instructors, and through hands-on, minds-on activities designed to foster a collaborative, thoughtful learning environment. This second edition retains key features such as inquiry-based activities and case studies throughout, while simultaneously adding new material on the impact of standardized testing on inquiry-based science, and explicit links to science teaching standards. Also included are expanded resources like a comprehensive website, a streamlined format and updated content,

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making the experiential tools in the book even more useful for both pre- and in-service science teachers. Special Features: Each chapter is organized into two sections: one that focuses on content and theme; and one that contains a variety of strategies for extending chapter concepts outside the classroom Case studies open each chapter to highlight real-world scenarios and to connect theory to teaching practice Contains 33 Inquiry Activities that provide opportunities to explore the dimensions of science teaching and increase professional expertise Problems and Extensions, On the Web Resources and Readings guide students to further critical investigation of important concepts and topics. An extensive companion website includes even more student and instructor resources, such as interviews with practicing science teachers, articles from the literature, chapter PowerPoint slides, syllabus helpers, additional case studies, activities, and more. Visit <http://www.routledge.com/textbooks/9780415965286> to access this additional material.

This volume includes the papers presented during the 1st Euro-Mediterranean Conference for Environmental Integration (EMCEI) which was held in Sousse, Tunisia in November 2017. This conference was jointly organized by the editorial office of the Euro-Mediterranean Journal for Environmental Integration in Sfax, Tunisia and Springer (MENA Publishing Program) in Germany. It aimed to give a more concrete expression to the Euro-Mediterranean integration process by supplementing existing North-South programs and agreements with a new multilateral scientific forum that

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emphasizes in particular the vulnerability and proactive remediation of the Euro-Mediterranean region from an environmental point of view. This volume gives a general and brief overview on current research focusing on emerging environmental issues and challenges and its applications to a variety of problems in the Euro-Mediterranean zone and surrounding regions. It contains over five hundred and eighty carefully refereed short contributions to the conference. Topics covered include (1) innovative approaches and methods for environmental sustainability, (2) environmental risk assessment, bioremediation, ecotoxicology, and environmental safety, (3) water resources assessment, planning, protection, and management, (4) environmental engineering and management, (5) natural resources: characterization, assessment, management, and valorization, (6) intelligent techniques in renewable energy (biomass, wind, waste, solar), (7) sustainable management of marine environment and coastal areas, (8) remote sensing and GIS for geo-environmental investigations, (9) environmental impacts of geo/natural hazards (earthquakes, landslides, volcanic, and marine hazards), and (10) the environmental health science (natural and social impacts on Human health).

Presenting a wide range of topics and new results, this edited volume will appeal to anyone working in the subject area, including researchers and students interested to learn more about new advances in environmental research initiatives in view of the ever growing environmental degradation in the Euro-Mediterranean region, which has turned environmental

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and resource protection into an increasingly important issue hampering sustainable development and social welfare.

The name of Hippocrates has been invoked as an inspiration of medicine since antiquity, and medical practitioners have turned to Hippocrates for ethical and social standards. While most modern commentators accept that medicine has sometimes fallen short of Hippocratic ideals, these ideals are usually portrayed as having a timeless appeal, departure from which is viewed as an aberration that only a return to Hippocratic values will correct. Recent historical work has begun to question such an image of Hippocrates and his medicine. Instead of examining Hippocratic ideals and values as an unchanging legacy passed to us from antiquity, historians have increasingly come to explore the many different ways in which Hippocrates and his medicine have been constructed and reconstructed over time. Thus scholars have tended to abandon attempts to extract a real Hippocrates from the mass of conflicting opinions about him. Rather, they tend to ask why he was portrayed in particular ways, by particular groups, at particular times. This volume explores the multiple uses, constructions, and meanings of Hippocrates and Hippocratic medicine since the Renaissance, and elucidates the cultural and social circumstances that shaped their development. Recent research has suggested that whilst the process of constructing and reconstructing Hippocrates began during antiquity, it was during the sixteenth century that the modern picture emerged. Many scholastic endeavours today, it is

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claimed, are attempts to answer Hippocratic questions first posed in the sixteenth century. This book provides an opportunity to begin to evaluate such claims, and to explore their relevance in areas beyond those of classical scholarship.

Food is at the centre of human existence. We eat every day, not only to satisfy our physical needs but also as part of cultural and social interaction. Food choices and markets shape the agricultural landscape and the cities we live in. Whereas what we choose to eat and feed our family is part of who we are, a growing number of actors compete to influence our food habits, through marketing strategies and nutritional advice. And ethical considerations are coupled with every choice over food - whether related to production, distribution, consumption, food waste, policy in general, marketing or advice. Given the variety of implications the 'food problem' entails, the construction of an inclusive society must redirect the concerns about food in the present to the imagination of future alternatives. The search for innovative solutions calls for multidisciplinary critical enquiry - and utopian thinking will be instrumental in that regard. This book brings together work by scholars in a wide range of disciplines addressing many different topics related to food futures. Topics covered include food and literature, food waste, food communication, food policy, corporate social responsibility and public procurement in food supply, responsible research and innovation in food production as well as sustainability and animal ethics and welfare.

This book presents research on precipitation partitioning

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processes in vegetated ecosystems, putting them into a global context. It describes the processes by which meteoric water comes into contact with the vegetation's canopy, typically the first surface contact of precipitation on land. It also discusses how precipitation partitioning by vegetation impacts the amount, patterning, and chemistry of water reaching the surface, as well as the amount and timing of evaporative return to the atmosphere. Although this process has been extensively studied, this is the first review of the global literature on the partitioning of precipitation by forests, shrubs, crops, grasslands and other less-studied plant types. The authors offer global contextualization combined with a detailed discussion of the impacts for the climate and terrestrial ecohydrological systems. As such, this comprehensive overview is a valuable reference tool for a wide range of specialists and students in the fields of geoscience and the environment.

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