

Geology Ocr 2013 January Papers

This book is intended to provide teachers and researchers with a wide range of ideas from researchers working to integrate the new technology of Augmented Reality into educational settings and processes.

This comprehensive guide offers advice on the types of surgery on offer and highlights the many diets that are required prior to surgery. Its main focus is on advice and recipes for after surgery to help the post-op patient maximise their best chance of long-term success with weight-loss and better health.

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A comprehensive and self-contained introduction to Gaussian processes, which provide a principled, practical, probabilistic approach to learning in kernel machines.

Gaussian processes (GPs) provide a principled, practical, probabilistic approach to learning in kernel machines. GPs have received increased attention in the machine-learning community over the past decade, and this book provides a long-needed systematic and unified treatment of theoretical and practical aspects of GPs in machine learning. The treatment is comprehensive and self-contained, targeted at researchers and students in machine learning and applied

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statistics. The book deals with the supervised-learning problem for both regression and classification, and includes detailed algorithms. A wide variety of covariance (kernel) functions are presented and their properties discussed. Model selection is discussed both from a Bayesian and a classical perspective. Many connections to other well-known techniques from machine learning and statistics are discussed, including support-vector machines, neural networks, splines, regularization networks, relevance vector machines and others. Theoretical issues including learning curves and the PAC-Bayesian framework are treated,

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and several approximation methods for learning with large datasets are discussed. The book contains illustrative examples and exercises, and code and datasets are available on the Web. Appendixes provide mathematical background and a discussion of Gaussian Markov processes.

Describes recent academic and industrial applications of topic models with the goal of launching a young researcher capable of building their own applications of topic models.

Physical Principles of Remote Sensing

The Bariatric Bible

Academic E-Books

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*Synthesis across Processes, Places
and Scales*

A Practical Guide

Celebrating 50 Years of INHIGEO

In Because of Race, Mica Pollock tackles a long-standing and fraught debate over racial inequalities in America's schools. Which denials of opportunity experienced by students of color should be remedied? Pollock exposes raw, real-time arguments over what inequalities of opportunity based on race in our schools look

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like today--and what, if anything, various Americans should do about it. Pollock encountered these debates while working at the U.S. Department of Education's Office for Civil Rights in 1999-2001. For more than two years, she listened to hundreds of parents, advocates, educators, and federal employees talk about the educational treatment of children and youth in specific schools and districts. People

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debated how children were spoken to, disciplined, and ignored in both segregated and desegregated districts, and how children were afforded or denied basic resources and opportunities to learn. Pollock discusses four rebuttals that greeted demands for everyday justice for students of color inside schools and districts. She explores how debates over daily opportunity provision exposed conflicting analyses of opportunity

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*denial and harm worth
remedying. Because of
Race lays bare our
habits of argument and
offers concrete
suggestions for arguing
more successfully toward
equal opportunity.*

*This book is a popular
description of the unity
of the forces of nature
for the general
reader. At present, all
interactions between
bodies in nature are
through to be ultimately
due to the interaction
of elementary particles
and involve only four*

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*types of forces:
universal gravitation,
or gravitational forces,
electromagnetic forces,
nuclear forces and the
so-called weak
interaction. This book
describes the principal
properties of these four
types of force and their
"sphere of action", that
is, the part they play
in diverse natural
processes that range
from galaxies to the
atomic nucleus and the
mutual transformations
of elementary particles.
It includes the latest*

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achievements of physics and gives a picture of the unresolved problems that confront science today.

Vols. for 1964- have guides and journal lists.

Predicting water runoff in ungauged water catchment areas is vital to practical applications such as the design of drainage infrastructure and flooding defences, runoff forecasting, and for catchment management tasks such as water

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allocation and climate impact analysis. This full colour book offers an impressive synthesis of decades of international research, forming a holistic approach to catchment hydrology and providing a one-stop resource for hydrologists in both developed and developing countries. Topics include data for runoff regionalisation, the prediction of runoff hydrographs, flow duration curves, flow paths and residence

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times, annual and seasonal runoff, and floods. Illustrated with many case studies and including a final chapter on recommendations for researchers and practitioners, this book is written by expert authors involved in the prestigious IAHS PUB initiative. It is a key resource for academic researchers and professionals in the fields of hydrology, hydrogeology, ecology, geography, soil science,

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*and environmental and
civil engineering.*

*Notes on Walt Whitman,
as Poet and Person
From April, 1861, to
April, 1865;*

*Climate Change: An
Encyclopedia of Science
and History [4 volumes]*

*A Guidebook to Taurus-
Littrow*

*Applications of Topic
Models*

*Publishers, Librarians,
and Users*

*Argues that the courts should have
only a limited role in federal
policymaking, and discusses
examples of the courts becoming*

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*too involved in setting standards
A quantitative yet accessible
introduction to remote sensing
techniques, this new edition
covers a broad spectrum of Earth
science applications.*

*The Apollo 17 mission is discussed
and illustrated. Lunar surface and
orbital experiments are briefly
described, and results are
outlined.*

*When should we try to prevent
suicide? Should it be facilitated for
some people, in some
circumstances? For the last forty
years, law and policy on suicide
have followed two separate and
distinct tracks: laws aimed at
preventing suicide and,
increasingly, laws aimed at*

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facilitating it. In Rational Suicide, Irrational Laws legal scholar Susan Stefan argues that these laws co-exist because they are based on two radically disparate conceptions of the would-be suicide. This is the first book that unifies policies and laws, including constitutional law, criminal law, malpractice law, and civil commitment law, toward people who want to end their lives. Based on the author's expert understanding of mental health and legal systems, analysis of related national and international laws and policy, and surveys and interviews with more than 300 suicide-attempt survivors, doctors, lawyers, and mental health

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professionals, Rational Suicide, Irrational Laws exposes the counterproductive nature of current policies and laws about suicide. Stefan proposes and defends specific reforms, including increased protection of mental health professionals from liability, increased protection of suicidal people from coercive interventions, reframing medical involvement in assisted suicide, and focusing on approaches to suicidal people that help them rather than assuming suicidality is always a symptom of mental illness. Stefan compares policies and laws in different states in the U.S. and examines the policies and laws of other countries in Europe,

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Asia, and the Americas, including the 2015 legalization of assisted suicide in Canada. The book includes model statutes, seven in-depth studies of people whose cases presented profound ethical, legal, and policy dilemmas, and over a thousand cases interpreting rights and responsibilities relating to suicide, especially in the area of psychiatric malpractice.

Offshore Site Investigation

Responsible Conduct of Research

How Americans Debate Harm and

Opportunity in Our Schools

Proceedings of a Conference Held

in March 1979, in London

Basics of Foundation Design

Pile Design and Construction

Practice

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Artificial intelligence (AI) is a field within computer science that is attempting to build enhanced intelligence into computer systems. This book traces the history of the subject, from the early dreams of eighteenth-century (and earlier) pioneers to the more successful work of today's AI engineers. AI is becoming more and more a part of everyone's life. The technology is already embedded in face-recognizing cameras, speech-recognition software, Internet search engines, and health-care robots, among other applications. The book's many diagrams and easy-to-understand descriptions of AI programs will help the casual reader gain an understanding of how these and other AI systems actually work. Its thorough (but unobtrusive) end-of-chapter notes containing citations to important source materials will be of great use to AI scholars and researchers. This book promises to be the definitive history of a

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field that has captivated the imaginations of scientists, philosophers, and writers for centuries.

This international handbook is essential for geotechnical engineers and engineering geologists responsible for designing and constructing piled foundations. It explains general principles and practice and details current types of pile, piling equipment and methods. It includes calculations of the resistance of piles to compressive loads, pile group

How should historians speak truth to power – and why does it matter? Why is five hundred years better than five months or five years as a planning horizon? And why is history – especially long-term history – so essential to understanding the multiple pasts which gave rise to our conflicted present? The History Manifesto is a call to arms to historians and everyone interested in the role of history in contemporary society.

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Leading historians Jo Guldi and David Armitage identify a recent shift back to longer-term narratives, following many decades of increasing specialisation, which they argue is vital for the future of historical scholarship and how it is communicated. This provocative and thoughtful book makes an important intervention in the debate about the role of history and the humanities in a digital age. It will provoke discussion among policymakers, activists and entrepreneurs as well as ordinary listeners, viewers, readers, students and teachers. This title is also available as Open Access.

Twenty First Century Science* is a suite of complementary specifications offering flexible and exciting options for science at GCSE* is unique in having been extensively trialled over three years with more than 6,000 students in each year* is motivating, stimulating, and relevant. The specifications

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and resources are the products of close collaboration between the University of York Science Education Group, the Nuffield Curriculum Centre, OCR, and Oxford University Press. The GCSE Science course contains nine modules: -B1 Your and your genes -B2 Keeping healthy -B3 Life on Earth -C1 Air quality -C2 Material choices -C3 Food matters -P1 The Earth in the Universe -P2 Radiation and life -P3 Radioactive materials

A comprehensive set of trialled resources is available: A Textbook at each of Foundation and Higher tiers which use engaging, up-to-date science contexts. Workbooks at each of Foundation and Higher tiers which can be used for homework and provide the student with a set of summary notes to help with revision. A Revision Guide. A Teacher and Technician Guide with lesson plans covering the whole course, including assessments, homeworks, and cover lessons, and activity sheets. An

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iPack CD-ROM which includes the lesson plans in interactive form, along with over 100 video and audio clips, animations, and PowerPoint presentations. Remember the CD-ROMs are eligible for e-learning credits. An eBook CD-ROM, which contains the entire content of both the Foundation and Higher Tier student textbooks. For more information, visit: www.twentyfirstcenturyscience.org

On the Moon with Apollo 17

Runoff Prediction in Ungauged Basins

Soil Liquefaction

Geological Field Techniques

Evolution of a Habitable World

An Introduction to the Chemistry of the Sea

*The Cambridge Advanced Learner's Dictionary gives the vital support which advanced students need, especially with the essential skills: reading, writing, listening and speaking. In the book: * 170,000*

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*words, phrases and examples * New words: so your English stays up-to-date * Colour headwords: so you can find the word you are looking for quickly * Idiom Finder * 200 'Common Learner Error' notes show how to avoid common mistakes * 25,000 collocations show the way words work together * Colour pictures: 16 full page colour pictures On the CD-ROM: * Sound: recordings in British and American English, plus practice tools to help improve pronunciation * UNIQUE! Smart Thesaurus helps you choose the right word * QUICKfind looks up words for you while you are working or reading on screen * UNIQUE! SUPERwrite gives on screen help with grammar, spelling and collocation when you are writing * Hundreds of interactive exercises*

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The study of the Earth's origin, its composition, the processes that changed and shaped it over time and the fossils preserved in rocks, have occupied enquiring minds from ancient times. The contributions in this volume trace the history of ideas and the research of scholars in a wide range of geological disciplines that have paved the way to our present-day understanding and knowledge of the physical nature of our planet and the diversity of life that inhabited it. To mark the 50th anniversary of the founding of the International Commission on the History of Geology (INHIGEO), the book features contributions that give insights into its establishment and progress. In other sections authors reflect on the value of studying the history of the geosciences and

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provide accounts of early investigations in fields as diverse as tectonics, volcanology, geomorphology, vertebrate palaeontology and petroleum geology. Other papers discuss the establishment of geological surveys, the contribution of women to geology and biographical sketches of noted scholars in various fields of geoscience.

An OCR endorsed textbook Instil a broad understanding of UK and global geographical issues using the clear explanations and skills-focused activities in this thematic study guide; tailored to the new assessment requirements and produced by one of the leading Geography publishers and OCR's Publishing Partner for Geography. - Maps the content against the

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reformed specification, providing an easy-to-follow teaching pathway designed by an author team of experienced teachers and examiners - Equips students with the subject knowledge and up-to-date case study examples they need to maximise their potential, with opportunities to undertake developmental activities for each theme - Offers you a whole-class solution to teaching the non-tiered papers with extension activities to stretch high achievers and scaffolded questions that support lower-ability students - Embeds a focus on mathematical and statistical skills throughout by including opportunities to analyse a range of maps, graphs, GIS material and data sources - Prepares students to approach assessment confidently with practice questions of varying

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difficulty and handy tips for writing successful answers - Highlights possible fieldwork projects and contains guidance on carrying out fieldwork, making it easier to integrate practical and theoretical learning

Super-Resolution Imaging serves as an essential reference for both academicians and practicing engineers. It can be used both as a text for advanced courses in imaging and as a desk reference for those working in multimedia, electrical engineering, computer science, and mathematics. The first book to cover the new research area of super-resolution imaging, this text includes work on the following groundbreaking topics: Image zooming based on wavelets and generalized interpolation; Super-

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resolution from sub-pixel shifts; Use of blur as a cue; Use of warping in super-resolution; Resolution enhancement using multiple apertures; Super-resolution from motion data; Super-resolution from compressed video; Limits in super-resolution imaging. Written by the leading experts in the field, Super-Resolution Imaging presents a comprehensive analysis of current technology, along with new research findings and directions for future work.

Earth

Judicial Compulsions

A Critical State Approach

Cambridge Advanced Learner's

Dictionary KLETT VERSION

Rational Suicide, Irrational Laws

Super-Resolution Imaging

This work has been selected by

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scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an

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easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

This practical guide provides the best introduction to large deformation material point method (MPM) simulations for geotechnical engineering. It provides the basic theory, discusses the different numerical features used in large deformation simulations, and presents a number of applications -- providing references, examples and guidance when using MPM for practical applications. MPM covers problems in static and dynamic situations within a common

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framework. It also opens new frontiers in geotechnical modelling and numerical analysis. It represents a powerful tool for exploring large deformation behaviours of soils, structures and fluids, and their interactions, such as internal and external erosion, and post-liquefaction analysis; for instance the post-failure liquid-like behaviours of landslides, penetration problems such as CPT and pile installation, and scouring problems related to underwater pipelines. In the recent years, MPM has developed enough for its practical use in industry, apart from the increasing interest in the academic world.

GEOLOGICAL FIELD

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TECHNIQUES The understanding of Earth processes and environments over geological time is highly dependent upon both the experience that can only be gained through doing fieldwork, and the collection of reliable data and appropriate samples in the field. This textbook explains the main data gathering techniques used by geologists in the field and the reasons for these, with emphasis throughout on how to make effective field observations and record these in suitable formats. Equal weight is given to assembling field observations from igneous, metamorphic and sedimentary rock types. There are also substantial chapters on producing a field

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notebook, collecting structural information, recording fossil data and constructing geological maps. Geological Field Techniques is designed for students, amateur enthusiasts and professionals who have a background in geology and wish to collect field data on rocks and geological features. Teaching aspects of this textbook include: step-by-step guides to essential practical skills such as using a compass-clinometer, making a geological map and drawing a field sketch; tricks of the trade, checklists, flow charts and short worked examples; over 200 illustrations of a wide range of field notes, maps and geological features; appendices with the

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commonly used rock description and classification diagrams; a supporting website hosted by Wiley-Blackwell is available at

www.wiley.com/go/coe/geology

Engagingly introduces marine chemistry and the ocean's geochemical interactions with the solid earth and atmosphere, for students of oceanography.

Diving in Marine Mammals

Reminiscences of Levi Coffin, the Reputed President of the

Underground Railroad

Augmented Reality in Educational Settings

The Forces of Nature

2012-2013 College Admissions

Data Sourcebook Midwest Edition

Lays of Ancient Rome, with Ivry

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and the Armada

This is an outstanding overview of the history of the Earth from a unique planetary perspective for introductory courses in the earth sciences. The book approaches Earth history as an evolution, encompassing the origin of the cosmos through the inner working of living cells. Earth: Evolution of a Habitable Planet tells how the Earth has come to its present state, why it differs from its neighboring planets, what life's place is in Earth's history, and how humanity affects the processes that make our planet livable. Today's human influences are contemplated in the context of natural changes on Earth. This book brings a fresh perspective to the study of the Earth for students who wish to learn how our planet evolved to its present form.

The "Red Book" presents a background

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to conventional foundation analysis and design. The text is not intended to replace the much more comprehensive 'standard' textbooks, but rather to support and augment these in a few important areas, supplying methods applicable to practical cases handled daily by practising engineers and providing the basic soil mechanics background to those methods. It concentrates on the static design for stationary foundation conditions. Although the topic is far from exhaustively treated, it does intend to present most of the basic material needed for a practising engineer involved in routine geotechnical design, as well as provide the tools for an engineering student to approach and solve common geotechnical design problems.

E-Books in Academic Libraries:

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Stepping Up to the Challenge provides readers with a view of the changing and emerging roles of electronic books in higher education. The three main sections contain contributions by experts in the publisher/vendor arena, as well as by librarians who report on both the challenges of offering and managing e-books and on the issues surrounding patron use of e-books. The case study section offers perspectives from seven different sizes and types of libraries whose librarians describe innovative and thought-provoking projects involving e-books. Read about perspectives on e-books from organizations as diverse as a commercial publisher and an association press. Learn about the viewpoint of a jobber. Find out about the e-book challenges facing librarians, such as the quest to control costs in the

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patron-driven acquisitions (PDA) model, how to solve the dilemma of resource sharing with e-books, and how to manage PDA in the consortial environment. See what patron use of e-books reveals about reading habits and disciplinary differences. Finally, in the case study section, discover how to promote scholarly e-books, how to manage an e-reader checkout program, and how one library replaced most of its print collection with e-books. These and other examples illustrate how innovative librarians use e-books to enhance users' experiences with scholarly works.

For millions of people worldwide, nurses are the difference between life and death, self-sufficiency and dependency, hope and despair. But a lack of understanding of what nurses really do -- one perpetuated by popular

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media's portrayal of nurses as simplistic archetypes -- has devalued the profession and contributed to a global shortage that constitutes a public health crisis. Today, the thin ranks of the nursing workforce contribute to countless preventable deaths. This fully updated and expanded edition of Saving Lives highlights the essential roles nurses play in contemporary health care and how this role is marginalized by contemporary culture. Through engaging prose and examples drawn from television, advertising, and news coverage, the authors detail the media's role in reinforcing stereotypes that fuel the nursing shortage and devalue a highly educated sector of the contemporary workforce. Perhaps most important, the authors provide a wealth of ideas to help reinvigorate the nursing field and correct this imbalance. As

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American health care undergoes its greatest overhaul in decades, the practical role of nurses -- that as autonomous, highly skilled practitioners -- has never been more important. Accordingly, Saving Lives addresses both the sources of, and prescription for, misperceptions surrounding contemporary nursing.

The Material Point Method for Geotechnical Engineering

Why the Media's Portrayal of Nursing Puts Us All at Risk

Being a Brief History of the Labors of a Lifetime in Behalf of the Slave, with the Stories of Numerous Fugitives, who Gained Their Freedom Through His Instrumentality, and Many Other Incidents

Because of Race

**An Encyclopedia of Science and History
History of Geoscience**

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Recent scandals and controversies, such as data fabrication in federally funded science, data manipulation and distortion in private industry, and human embryonic stem cell research, illustrate the importance of ethics in science. *Responsible Conduct of Research*, now in a completely updated second edition, provides an introduction to the social, ethical, and legal issues facing scientists today.

The main objective of this investigation was to evaluate the usefulness of the data from the S192 Multispectral Scanner aboard Skylab in snow-cloud discrimination. From the available S192 screening films and digital tape data, the reflectance

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characteristics of snow, ice, and water clouds in different spectral bands from the visible into the near infrared spectral region can be determined. In the visible part of the spectrum, snow, ice, and water clouds appear white. In the near infrared, Band 11 (1.55 to 1.75 micrometers), water clouds are white, ice clouds are gray and snow is black. The ratio of the radiance values in Band 6 (0.68 to 0.76 micrometers to Band 11 (1.55 to 1.75 micrometers) appears to provide a method for discriminating between snow cover, ice, and water clouds. (Author).

This book provides a holistic consideration of climate change that goes beyond pure science, fleshing out the discussion by

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considering cultural, historical, and policy-driven aspects of this important issue. □ Contributions from more than 100 experts □ Excerpts from reports from international organizations such as the Intergovernmental Panel on Climate Change (IPCC) □ Transcripts of speeches from world leaders on the climate change issue □ Sidebars on the "climate-history connection" explore the possible links between climate and key events through history, such as the Classical Maya collapse □ Essential, annotated primary sources □ Quotes from policy makers, scientists, eyewitnesses to climate change, and social and cultural leaders

Soil liquefaction is a major

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concern in areas of the world subject to seismic activity or other repeated vibration loads. This book brings together a large body of information on the topic, and presents it within a unified and simple framework. The result is a book which will provide the practising civil engineer with a very sound understanding of

OCR GCSE (9-1) Geography A:
Geographical Themes
Science Citation Index
Saving Lives
Military History of Ulysses S. Grant
Snow/cloud Discrimination
Examining Current Approaches to Suicide in Policy and Law