

Earth Science Reference Table 2012 Edition

Barron's Regents Exams and Answers: Earth Science 2020 provides essential review for students taking the Earth Science Regents, including actual exams administered for the course, thorough answer explanations, and comprehensive review of all topics. All Regents test dates for 2020 have been canceled. Currently the State Education Department of New York has released tentative test dates for the 2021 Regents. The dates are set for January 26-29, 2021, June 15-25, 2021, and August 12-13th. This edition features: Five actual, administered Regents exams so students have the practice they need to prepare for the test Review questions grouped by topic, to help refresh skills learned in class Thorough explanations for all answers Score analysis charts to help identify strengths and weaknesses Study tips and test-taking strategies Looking for additional practice and review? Check out Barron's Earth Science Power Pack 2020 two-volume set, which includes Let's Review Regents: Earth Science 2020 in addition to the Regents Exams and Answers: Earth Science book.

Ancient Supercontinents and the Paleogeography of Earth offers a systematic examination of Precambrian cratons and supercontinents. Through detailed maps of drift histories and paleogeography of each continent, this book examines topics related to Earth's tectonic evolution prior to Pangea, including plate kinematics, orogenic development, and paleoenvironments. Additionally, this book discusses the methodologies used, principally paleomagnetism and tectonostratigraphy, and addresses geophysical topics of mantle dynamics and geodynamo evolution over billions of years. Structured clearly with consistent coverage for Precambrian cratons, this book combines state-of-the-art paleomagnetic and geochronologic data to reconstruct the paleogeography of the Earth in the context of major climatic events such as global glaciations. It is an ideal, up-to-date reference for geoscientists and geographers looking for answers to questions surrounding the tectonic evolution of Earth. Provides robust paleogeographies of Precambrian cratons based on high-quality paleomagnetic and geochronologic data and critically tested by global geological datasets Includes links to updated databases for the Precambrian such as PALEOMAGIA and the Global Paleomagnetic Database (GPMDB) Presents full-color maps of the drift histories of each continent as well as their paleogeographies Discusses key questions regarding continental drift, the supercontinent cycle, and the geomagnetic dipole hypothesis and analyzes palaeogeography in the context of Earth's holistic evolution

This report examines the scientific basis for the use of remotely sensed data, particularly Normalized Difference Vegetation Index (NDVI), primarily for the assessment of land degradation at different scales and for a range of applications, including resilience of agro-ecosystems. Evidence is drawn from a wide range of investigations, primarily from the scientific peer-reviewed literature but also non-journal sources. The literature review has been corroborated by interviews with leading specialists in the field. The report reviews the use of NDVI for a range of themes related to land degradation, including land cover change, drought monitoring and early warning systems, desertification processes, greening trends, soil erosion and salinization, vegetation burning and recovery after fire, biodiversity loss, and soil carbon. This SpringerBrief also discusses the limits of the use of NDVI for land degradation assessment and potential for future directions of use. A substantial body of peer-reviewed research lends unequivocal support for the use of coarse-resolution time series of NDVI data for studying vegetation dynamics at global, continental and sub-continental levels. There is compelling evidence that these data are highly correlated with biophysically meaningful vegetation characteristics such as photosynthetic capacity and primary production that are closely related to land degradation and to agroecosystem resilience.

Textbook connecting fundamental physics to practical applications, for students in meteorology/atmospheric science and for working professionals as a reference text.

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

Digest of Education Statistics 2012 is the 48th in a series of publications initiated in 1962. Its primary purpose is to provide a compilation of statistical information covering the broad field of American education--from pre-kindergarten through graduate school--drawn from government and private sources, but especially from surveys and other activities led by NCES (National Center for Education Statistics) part of the Institute for Education Sciences (IES). The digest contains data on the number of schools, students, and teachers, as well as statistics on educational attainment, finances, libraries, technology, and international comparisons. Details on population trends, education attitudes, labor force characteristics, and federal aid supplies helpful background for evaluating the education data. This statistical reference could be helpful to parents choosing schools for their children as well as for teachers, librarians, and public administrators as it tracks enrollment, population trends and key areas of studies with student progress. It also tracks the post-secondary/college level detailing undergraduate tuition and room/board ESTIMATE costs at private nonprofit institutions, private for profit institutions and public institutions. It also tallies the number of postsecondary degrees and provides some gender demographics in this area. The Digest contains seven chapters: All Levels of Education, Elementary and Secondary Education, Postsecondary Education, Federal Programs for Education and Related Activities, Outcomes of Education, International Comparisons of Education, and Libraries and Adult Education. Preceding these chapters is an Introduction that provides a brief overview of current trends in American education, which supplements the tabular materials in chapters 1 through 7. The Digest concludes with three appendixes. The first appendix, Guide to Sources, provides a brief synopsis of the surveys used to generate the Digest tables; the second, Definitions, is included to help readers understand terms used in the Digest; and the third, Index of Table Numbers, allows readers to quickly locate tables on specific topics. In addition to updating many of the statistics that have appeared in previous years, this edition contains new material, including: Percentage distribution of 6- to 18-year olds, by parent's highest level of educational attainment, household type (either two-parent or single-parent), and child's race/ethnicity (table 12); Enrollment and percentage distribution of enrollment in public elementary and secondary schools, by race/ethnicity and region (table 44); Number and percentage of public school students participating in programs for English language learners, by state (table 47); Children 3 to 21 years old served under Individuals with Disabilities

Education Act, Part B, by age group and race/ethnicity (table 49); Percentage of 3-, 4-, and 5-year-old children enrolled in preprimary programs, by attendance status, level of program, and selected child and family characteristics (table 57); Number and enrollment of public elementary and secondary schools that have closed, by school level and type (table 109); Number and percentage distribution of public school students eligible for free or reduced-price lunch, by school level, locale, and student race/ethnicity (table 112); Public elementary and secondary charter schools and enrollment, by state (table 117); First-time kindergartners' reading, mathematics, science, cognitive flexibility, and approaches to learning scale scores in fall and spring of the kindergarten year, by selected child, family, and school characteristics (table 135); Number and percentage distribution of kindergartners, by kindergarten entry status (i.e., early entrant, on-time entrant, delayed entrant, or kindergarten repeater) and selected child, family, and school characteristics (table 136); Kindergartners' reading, mathematics, science, cognitive flexibility, and approaches to learning scale scores in fall and spring of the kindergarten year, by kindergarten entry status (table 137); Percentage of 9th-grade students participating in various school-sponsored and non-school-sponsored activities, by sex and race/ethnicity (table 183); Percentage of 4th-, 8th-, and 12th-graders absent from school in the last month, by selected student and school characteristics and number of days absent (table 187); Total and current expenditures per pupil in fall enrollment in public elementary and secondary schools, by function and subfunction (table 214); Total fall enrollment in all postsecondary institutions participating in Title IV programs, by degree-granting status and control of institution (table 222); Percentage of recent high school completers enrolled in 2-year and 4-year colleges, by income level (table 236); Number of postsecondary students who entered the student loan repayment phase, number of students who defaulted, and 2-year student loan cohort default rates, by level and control of institution (table 400); Number and percentage of persons 16 to 24 years old who were neither enrolled in school nor working, by educational attainment, age group, family poverty status, and race/ethnicity (table 429); Employment to population ratios of all persons, males, and females 16 to 64 years old, by age group and educational attainment (tables 431, 432, and 433); Unemployment rates of all persons, males, and females 16 to 64 years old, by age group and educational attainment (tables 434, 435, and 436); Percentage of high school students age 16 over who were employed, by age group, sex, race/ethnicity, family income, nativity, and hours worked per week (table 441); and Average reading literacy scale scores of fourth-graders and percentage whose schools emphasize reading skills and strategies at or before second grade or at third grade, by sex and country or other education system (table 462).

Across the United States, thousands of hazardous waste sites are contaminated with chemicals that prevent the underlying groundwater from meeting drinking water standards. These include Superfund sites and other facilities that handle and dispose of hazardous waste, active and inactive dry cleaners, and leaking underground storage tanks; many are at federal facilities such as military installations. While many sites have been closed over the past 30 years through cleanup programs run by the U.S. Department of Defense, the U.S. EPA, and other state and federal agencies, the remaining caseload is much more difficult to address because the nature of the contamination and subsurface conditions make it difficult to achieve drinking water standards in the affected groundwater. Alternatives for Managing the Nation's Complex Contaminated Groundwater Sites estimates that at least 126,000 sites across the U.S. still have contaminated groundwater, and their closure is expected to cost at least \$110 billion to \$127 billion. About 10 percent of these sites are considered "complex," meaning restoration is unlikely to be achieved in the next 50 to 100 years due to technological limitations. At sites where contaminant concentrations have plateaued at levels above cleanup goals despite active efforts, the report recommends evaluating whether the sites should transition to long-term management, where risks would be monitored and harmful exposures prevented, but at reduced costs.

Prepares students for the new standards and the commencement level PS/Earth Science Test. Challenges with content-based, multiple choice, short and extended constructed-response questions. Features process skills activities in information systems, interconnectedness, and interdisciplinary problem solving,. Correlates PS/Earth Science key ideas on Earth dimensions, rocks and minerals, dynamic crust, surface processes, water cycle and climate, astronomy, and environmental awareness. Fosters mastery with practice on four recent tests for practice.

At a time of so much politicized debate over the phenomenon of global warming, the second edition of *The Future of the World's Climate* places the discussion in a broader geological, paleo-climatic, and astronomical context. This book is a resource based on reviews of current climate science and supported by sound, accurate data and projections made possible by technological advances in climate modeling. Crucially, this title examines in detail a wide variety of aspects, including human factors like land use, expanding urban climates, and governmental efforts at mitigation, such as the Kyoto Protocol. It also examines large-scale, long-term changes in oceans, glaciers, and atmospheric composition, including tropospheric ozone and aerosols. Weather extremes are addressed, as well as the impact of catastrophic events such as massive volcanism and meteorite impacts. Readers will find a complete picture of the Earth's future climate, delivered by authors drawn from all over the world and from the highest regarded peer-reviewed groups; most are also contributors to the Intergovernmental Panel on Climate Change's (IPCC) Assessment Reports. Winner of the 2012 ALSI Choice Award from Atmospheric Science Librarians International Each chapter has undergone major revisions and new content has been added throughout More than 200 tables, diagrams, illustrations, and photographs A cross-disciplinary resource encompassing the geosciences, life science, social science, and engineering ?This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. As a BONUS this eBook contains web addresses to 301 video movies for a better understanding of the technological process and 205 web addresses to recruitment companies where you may apply for a job.

New Frontiers in Rare Earth Science and Applications, Volume I consists of extended abstracts of the lectures, papers, and posters presented at the International Conference on Rare Earth Development and Applications held in Beijing on September 10-14, 1985. This compilation discusses rare earth chemical and physical metallurgy, geology of rare earth mineralization in China, and study of hydroxamic acids for the floatation of rare earth minerals. The reactions of organolanthanoid complexes, use of lanthanide ions in the study of calmodulin structure, and influence of the weak magnetic field on red blood cell electrophoresis in mice bodies are also deliberated. This publication is a good source for researchers and scientists of disciplines related to earth science.

Solar Radiation Projections of Cmp5 Models for South of Brazil *Elison Eduardo Bierhals, Dr., Francisco Pereira, Dr., Claudinéia*

Brazil, Dr., Elton Rossini DOI <https://doi.org/10.25034/ijcua.2018.36xx71> Experimental analysis of a flat plate solar collector with integrated latent heat thermal storage Mauricio Carmona, Dr., Mario Palacio, Dr., Arnold Martínez <https://doi.org/10.25034/ijcua.2018.36zd72> Livable city one step towards sustainable development Farzaneh Sasanpour, Dr. DOI <https://doi.org/10.25034/ijcua.2018.3673> Feasibility of a Carbon Consumption Tax for sustainable development – A case study of India Singh Kanwal Deepinder Pal, Dr. DOI <https://doi.org/10.25034/ijcua.2018.3674> Interrelationship between nutrients and chlorophyll-a in an urban stormwater lake during the ice-covered period Kejian Chu, Dr., Yuntong She, Dr., Jeff Kemp, Dr., Mark Loewen, Evan Davies, Dr. <https://doi.org/10.25034/ijcua.2018.3675> Power Quality Improvement by Using Statcom Control Scheme in Wind Energy Generation Interface to Grid Sheeraz Kirmani, Dr., Brijech Kumar <https://doi.org/10.25034/ijcua.2018.3676> Global Warming and Climate Change: A Critique on International Law and Policy Lisa P Lukose, Dr. DOI <https://doi.org/10.25034/ijcua.2018.3677> Exergy analysis of a flat plate solar collector with latent heat storage by phase change material for water heating applications at low temperature Angie Rincon Ortega, Mauricio Carmona, Dr. DOI <https://doi.org/10.25034/ijcua.2018.3678> Membrane Permeability Threshold for Osmotic Power Plant Efficiency A Berger, Dr., A Lebrun, S Khan, Q Masson-Pilet, A Supizet | DOI <https://doi.org/10.25034/ijcua.2018.3679> A Simple Heliodon System for Horizontal Placed Models Maged G Mikhael, Dr., Mostafa Metwaly DOI <https://doi.org/10.25034/ijcua.2018.3680> Evaluation Rainfall Regime at the Hydroelectric Power Plant toward Climate Change Francisco Pereira, Dr., Elison Eduardo Bierhals, Dr., Jose Leandro Neris, Matheus Rippel, Claudinéia Brazil, Dr., Luciane Salvi, Nei Marçal DOI <https://doi.org/10.25034/ijcua.2018.3682> Quality Evaluation and Study of Ecological Toxicity of Heavy Metals in Shadegan Wetland Samar Mortazavi, Dr., Mohsen Tizhoosh, Dr., Zahra Cheraghi, Dr. <https://doi.org/10.25034/ijcua.2>

This book constitutes the refereed proceedings of the 9th International Conference on Computational and Information Technologies in Science, Engineering and Education, CITech 2018, held in Ust-Kamenogorsk, Kazakhstan, in September 2018. The 25 revised full papers presented were carefully reviewed and selected from 64 submissions. The papers address issues such as mathematical and computer modeling, fundamental problems of mathematics, technological aspects of the applications of parallel computer systems, high level parallel programming languages and systems.

An inquiry into science education is an exploration into education in a context that is grounded and significant. It is written by a college professor of Physics and Science Education who spent sabbatical year as a full time science teacher in a neighborhood high school in a poor area of New York City. His varied experiences highlight the contrast of what science education is and what it can be. The framework through which the book is written is that science education should be an active, purposeful process which promotes functional understanding and critical thinking. Science learners should be given the opportunity to build an understanding of benchmark principals of science based on their own observations and reasoning. In much the same way, this book explores benchmark principals of science education through real classroom experiences. Standard approaches of teaching and assessment are presented and alternative opportunities are described. Theories and strategies of science education emerge from analysis of classroom observations. Although the focus is on the teaching and learning of science, the subtext is implications of a failing educational system and what can be done about it. The primary intended audience is educators of all capacities, but particularly science teachers. An inquiry into science education integrates critical topics of science education in a contextualized, accessible, and easy to read narrative. The secondary intended audience is non-fiction readers. This book examines educational issues relevant to a general audience from the perspective of a scientist with a focus on inquiry and reasoning. Critical issues are addressed through case histories, some with touches of humor, but all with insight into children and learning.

The ever-increasing awareness and growing focus on environmental issues such as climate change and energy use is bringing about an urgency in expanding research to provide possible solutions to these problems. Through current engineering research and emerging technologies, scientists work to combat modern environmental and ecological problems plaguing the globe. Advanced Methodologies and Technologies in Engineering and Environmental Science provides emerging research on the current and forthcoming trends in engineering and environmental sciences to resolve several issues plaguing researchers such as fossil fuel emission and climate change. While highlighting these challenges, including chemical toxicity environmental responsibility, readers will learn how engineering applications can be used across disciplines to aid in reducing environmental hazards. This book is a vital resource for engineers, researchers, professors, academicians, and environmental scientists seeking current research on how engineering tools and technologies can be applied to environmental issues.

Building on the foundation set in Volume I—a landmark synthesis of research in the field—Volume II is a comprehensive, state-of-the-art new volume highlighting new and emerging research perspectives. The contributors, all experts in their research areas, represent the international and gender diversity in the science education research community. The volume is organized around six themes: theory and methods of science education research; science learning; culture, gender, and society and science learning; science teaching; curriculum and assessment in science; science teacher education. Each chapter presents an integrative review of the research on the topic it addresses—pulling together the existing research, working to understand the historical trends and patterns in that body of scholarship, describing how the issue is conceptualized within the literature, how methods and theories have shaped the outcomes of the research, and where the strengths, weaknesses, and gaps are in the literature. Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research, the Handbook of Research on Science Education, Volume II is an essential resource for the entire science education community. This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) will again form the standard scientific reference for all those concerned with climate change and its consequences, including students and researchers in environmental science, meteorology, climatology, biology, ecology and atmospheric chemistry. It provides invaluable material for decision makers and stakeholders: international, national, local; and in all branches: government, businesses, and NGOs. This volume provides:

- An authoritative and unbiased overview of the physical science basis of climate change
- A more extensive assessment of changes observed throughout the climate system than ever before
- New dedicated chapters on sea-level change, biogeochemical cycles, clouds and aerosols, and regional climate phenomena
- A more extensive coverage of model projections, both near-term and long-term climate projections
- A detailed assessment of climate change observations, modelling, and attribution for every continent
- A new comprehensive atlas of global and regional climate projections for 35 regions of the world

The job interview is probably the most important step you will take in your job search journey. Because it's always

important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 272 questions and answers for job interview and as a BONUS 289 links to video movies and web addresses to 205 recruitment companies where you may apply for a job. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry.

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Articles refer to teaching at various different levels from kindergarten to graduate school, with sections on teaching: geologic time, space, complex systems, and field-work. Each section includes an introduction, a thematic paper, and commentaries.

This book series is composed of peer-reviewed proceedings of selected symposia organized by the International Association of Geodesy. It deals primarily with topics related to Geodesy Earth Sciences : terrestrial reference frame, Earth gravity field, Geodynamics and Earth rotation, Positioning and engineering applications.

This book is an introduction to a range of methods and techniques used in the scientific study of the rocks, soils, atmosphere, waters and living organisms of the Earth, and of the relationships of these environmental factors with human activities. It is intended to provide a selection of methods for students taking university courses in geography, geology, meteorology, hydrology, soil science, ecology and other allied environmental sciences. The contributors are all members of the School of Environmental Sciences at the University of East Anglia, Norwich, UK, and the book has developed from part of our course for first year students. It reflects our belief that students of vast complex environmental systems should begin their work with a panoramic view, whatever their ultimate specialization. The emphasis is therefore on breadth of treatment and on the connections between the various sciences. We have summarized and simplified in order to supply a collection of methods that can be managed by a beginning student. We start from basic principles and do not assume that the reader already has a strong scientific background. Eleven chapters follow, each dealing with a group of closely related methods and techniques. They may be taken in any order, although there are many cross references which demonstrate that the subjects covered are not eleven isolated techniques but a web of related principles. The first three topics illustrate the point.

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The Earth system functions and connects in unexpected ways - from the microscopic interactions of bacteria and rocks to the macro-scale processes that build and erode mountains and regulate Earth's climate. Efforts to study Earth's intertwined processes are made even more pertinent and urgent by the need to understand how the Earth can continue to sustain both civilization and the planet's biodiversity. A Vision for NSF Earth Sciences 2020-2030: Earth in Time provides recommendations to help the National Science Foundation plan and support the next decade of Earth science research, focusing on research priorities, infrastructure and facilities, and partnerships. This report presents a compelling

and vibrant vision of the future of Earth science research.

This book offers you a brief, but very involved look into the operations in the exploitation of Oil & Gas wells that will help you to be prepared for job interview at oil & gas companies. From start to finish, you'll see a general prognosis of the production process. If you are new to the oil & gas industry, you'll enjoy having a leg up with the knowledge of these processes. If you are a seasoned oil & gas person, you'll enjoy reading what you may or may not know in these pages. This course provides a non-technical overview of the phases, operations and terminology used on offshore production platforms. It is intended also for non-drilling personnel who work in the offshore drilling, exploration and production industry. This includes marine and logistics personnel, accounting, administrative and support staff, environmental professionals, etc. No prior experience or knowledge of drilling operations is required. This course will provide participants a better understanding of the issues faced in all aspects of drilling operations, with a particular focus on the unique aspects of offshore operations.

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"Top agricultural scientists from around the world have taken up the challenge of sustainable agriculture, with the specific focus on integrating agronomic, climatological, biophysical and socio-economic perspectives and processes. Every chapter (of the Handbook) contributes to addressing the growing food-security challenges facing the world."Foreword by Jeffrey Sachs, Director of the Earth Institute at Columbia UniversityClimate effects on agriculture are of increasing concern in both the scientific and policy communities because of the growing population and the greater uncertainty in the weather during growing seasons. Changes in production are directly linked to variations in temperature and precipitation during the growing season and often to the offseason changes in weather because of soil water storage to replenish the soil profile. This is not an isolated problem but one of worldwide interest because each country has concerns about their food security. The Agricultural Model Intercomparison and Improvement Project (AgMIP) was developed to evaluate agricultural models and intercompare their ability to predict climate impacts. In sub-Saharan Africa and South Asia, South America and East Asia, AgMIP regional research teams (RRTs) are conducting integrated assessments to improve understanding of agricultural impacts of climate change (including biophysical and economic impacts) at national and regional scales. Other AgMIP initiatives include global gridded modeling, data and information technology (IT) tool development, simulation of crop pests and diseases, site-based crop-climate sensitivity studies, and aggregation and scaling.

This self-contained handbook provides a carefully researched, compact source of key earth science information and data, logically sorted by subject matter, and then cross-referenced. Appealing to both experts and non-experts alike, the book presents earth science and environmental science as closely intertwined. It includes tables of the global distributions of fossil fuels, contrasted by tables of the distribution of non-fossil energy sources. Concise explanations cover the subject matters of geology, geophysics, oceans, atmosphere with attention to environmental implications and resources.

Applied Thermodynamics for MeteorologistsCambridge University Press

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The time has come. You are an Earth scientist. You've spent weeks, months, years working on this project – now is the time to pull it together for publication. You might be writing an undergraduate or graduate thesis, a research paper for a leading journal, a note for the newsletter of the local amateur scientific society, a book review or an abstract for a specialist geological conference. How do you make the transition from promising unpublished researcher to established academic author? Of course, the phrase 'academic publishing' covers a multitude of sins; monographs, research papers, book reviews, conference abstracts or whatever each requires a different approach. You have to decide what it is you are going to write and where to publish it. There are co-authors, supervisors of your degree, peer reviewers and editors to deal with on the way. But the only way to write like an academic is to write like an academic. . . where do you start? You could do much worse than start here. There are many books on how to write and be published aimed at research students and other aspiring academics. Many of these are readable, comprehensive and provide good advice. This book is composed of numerous short chapters on this subject, all directly relevant to one or more aspects of academic publishing and aimed particularly at the Earth scientists in the broadest sense. Geologists will be encouraged to use the book as much as a reference as a reader, 'dipping in' to the chapters that contain relevant tips, hints and comments to enable them to improve the paper that they are currently writing. The book is intended to be informative, readable and, above all, of practical application for all readers. In summary, the volume will be a readable compilation investigating many facets of academic publishing relevant to the Earth sciences. It will be of particular interest to postgraduate students, postdocs and new academics

2017 has been an exciting year for our innovative open access journal *Frontiers in Earth Science*: many new articles have been published and are now indexed in Web of Science (ESCI), new sections have opened for submissions (including Solid Earth Geophysics), and our Editorial Board has been successfully leading the peer review process and providing comprehensive reviews to our authors. Have a look at our archive to read about the feeding habits of dinosaurs, human influence on in the African humid period, volcanic hazard models, or how glaciers flowing into the ocean surrounding Greenland have changed over time! Launched at the end of 2013, our Journal consists of several specialties whose number has increased with time and currently stands at 19, also including a few specialties co-listed in other fields (<https://www.frontiersin.org/journals/earth-science#>). The present selection is not exhaustive as new ones are being launched and/or are under consideration for development. This growth has been paralleled by a yearly increase in the number of contributions and the Editorial Board members, reflecting the health of the Journal. Now also indexed in Web of Science - Emerging Sources Citation Index (ESCI), *Frontiers in Earth Science* is ambitious to become the leading open access journal in its field. The idea of creating an Editor's Choice eBook has been in our minds for a while as we wanted to create an environment for the Chief Editors to highlight their choice of representative papers in the Journal - we are happy to present now our first edition. The eBook offers a quick, though representative, window into the different specialties, giving additional visibility to some of the most interesting studies published in 2016 and 2017. It provides a glimpse into the state of the art of Earth Science on the cusp of 2020. Earth Science studies the different spheres of the Earth (geosphere, atmosphere, hydrosphere and, partly, biosphere) and, as such, it provides a holistic perspective of our planet. This discipline, in addition to understanding our environment, enables us to face major natural challenges, such as improving the management of natural resources, promoting environmental sustainability and forecasting and managing natural hazards (Acocella, 2015, and references therein). On this basis, the contributions grouped in this eBook, even though appearing distinct in subject, methods, goal and impact, should be considered as different aspects of the same system. Indeed, the selection of these contributions aims to capture a multidisciplinary and common understanding of our planet, with its interconnected processes and challenges. It is important to note that, in many cases, it has not been easy to select a representative study per specialty, and thus the papers included in this eBook should therefore not be considered as the representative ones, but rather as a concise selection of key papers. We hope you enjoy reading our first edition of the Editor's Choice eBook! Jessica (Journal Manager), and Valerio (Field Chief Editor) Introduces the fundamental principles of applied Earth science needed for engineering practice, with case studies, exercises, and online solutions.

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