

Introduzione Alla Petrografia Ottica Con Cd Rom

This market-leading textbook has been fully updated in response to extensive user feedback. It includes a new chapter on joints and veins, additional examples from around the world, stunning new field photos, and extended online resources with new animations and exercises. The book's practical emphasis, hugely popular in the first edition, features applications in the upper crust, including petroleum and groundwater geology, highlighting the importance of structural geology in exploration and exploitation of petroleum and water resources. Carefully designed full-colour illustrations work closely with the text to support student learning, and are supplemented with high-quality photos from around the world. Examples and parallels drawn from practical everyday situations engage students, and end-of chapter review questions help them to check their understanding. Updated e-learning modules are available online (www.cambridge.org/fossen2e) and further reinforce key topics using summaries, innovative animations to bring concepts to life, and additional examples and figures.

Central-Southern Italy and the Tyrrhenian Sea are the sites of extensive Plio-Quaternary magmatic activity. The rock compositions include crustal anatectic granites and rhyolites, tholeiitic, calc-alkaline, shoshonitic volcanics, and potassic to ultrapotassic and Na-alkaline volcanics. This very wide compositional variation makes Italian magmatism one of the most complex petrological issues, the understanding of which is a challenge for modern petrology and geochemistry. This book summarises the petrological, geochemical and volcanological characteristics of Italian Plio-Quaternary volcanism, and discusses petrogenetic hypotheses and possible geodynamics settings. The book is written for petrologists and geochemists, but fundamental geochemical information is well presented and the use of excessive jargon is avoided, making the book readable to a wide audience of Earth scientists.

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The book describes the structure, composition and evolution of the Earth, the main geological processes occurring on it, and how some crucial environmental matters that are amply debated in the media (e.g. pollution, greenhouse effect) can be fully understood by placing them in the holistic context of the system Earth as a whole. It provides basic information on a series of key geological issues, from the structure and composition of the Earth to the large-scale processes that characterize our planet, such as rock alteration and sedimentation, magmatism, geomagnetism, seismicity, plate tectonics, cyclical migration of chemical elements through various Earth reservoirs (Geochemical Cycles), and evolution of the planet from Hadean to present. It intends to reach a wide readership, which is interested in our planet and wish to have a general and comprehensive view of its origin, evolution and activity. Potential readership includes undergraduate and advanced undergraduate students in Geology and other scientific disciplines, and any moderately- to well-educated people interested in the surrounding world and eager to gain a basic knowledge of the Earth and to reach an integrated view of how our planet is working.

Thoroughly revised second edition of a highly successful book describing all aspects of meteorites.

This vivid introduction to economic geology not only describes the most important deposit types, but also the processes involved in their formation. Magmatic, hydrothermal and sedimentary processes as well as weathering and alteration are explained in the framework of plate tectonics and the history of the Earth. The chapter about fossil fuels includes unconventional deposits and the much-debated fracking. Other topics covered are exploration, mining and economic aspects like commodity prices.

This is an updated edition of the book by the same author: "Plio-Quaternary volcanism in Italy - Petrology, geochemistry, geodynamics," published in 2005 by Springer. This edition has the same structure as the previous publication, with a general introduction; various chapters dedicated to different volcanic provinces in Italy; and a final chapter on the relationships between magmatism and geodynamics. It includes information that has become available in the last ten years, and new chapters have been added offering detailed discussions of the Oligo-Miocene orogenic volcanism on Sardinia and of some small outcrops of fragmented volcanic rocks occurring in several places of the Apennines. This new edition now covers the entire Tyrrhenian Sea magmatism of the last 40 Ma. Lastly, it includes two appendices: Appendix 1 reports on a comparison between the Tyrrhenian Sea volcanism and the partially coeval magmatism along the Alps and adjoining areas and has the objective of highlighting similarities and difference that can tell us much on geodynamics and magmatism between the converging plates of Europe and Africa. Appendix 2 is an update of the 2005 edition appendix and deals with classification of orogenic rocks with special emphasis on potassic alkaline volcanics.

There has been a great advance in the understanding of processes of meta morphism and of metamorphic rocks since the last edition of this book appeared. Methods for determining temperatures and pressures have become almost routine, and there is a wide appreciation that there is not a single temperature and pressure of metamorphism, but that rocks may preserve, in their minerals, chemistry and textures, traces of their history of burial, heating, deformation and permeation by fluids. However, this exciting new knowledge is still often difficult for non-specialists to understand, and this book, like the first edition, aims at enlightenment. I have concentrated on the interpretation of the plate tectonic settings of metamorphism, rather than following a geochemical approach. Although there is an impressive degree of agreement between the two, I believe that attempting to discover the tectonic conditions accompanying rock recrystallization will more readily arouse the interest of the beginner. I have used a series of case histories, as in the first edition, drawing on my own direct experience as far as possible. This

This book enables readers to see the connections in organic chemistry and understand the logic. Reaction mechanisms are grouped together to reflect logical relationships. Discusses organic chemistry as it is applied to real-world compounds and problems. Electrostatic potential plots are added throughout the text to enhance the recognition and importance of molecular polarity. Presents problems in a new "Looking-Ahead" section at the end of each chapter that show how concepts constantly build upon each other. Converts many of the structural formulas to a line-angle format in order to make structural formulas both easier to recognize and easier to draw.

Linear algebra provides the essential mathematical tools to tackle all the problems in Science. Introduction to Linear Algebra is primarily aimed at students in applied fields (e.g.

Computer Science and Engineering), providing them with a concrete, rigorous approach to face and solve various types of problems for the applications of their interest. This book offers a straightforward introduction to linear algebra that requires a minimal mathematical background to read and engage with. Features Presented in a brief, informative and engaging style Suitable for a wide broad range of undergraduates Contains many worked examples and exercises

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This two-volume study looks at the recent excavations in Rome and its surrounding areas which identified settlements and necropolises associated with a complex culture pre-dating that of Ancient Rome. The results reveal the social and cultural aspects of the daily life of the human groups who occupied this territory before the Latium civilization.

This comprehensive textbook covers all major topics related to the utilization of mineral resources for human activities. It begins with general concepts like definitions of mineral resources, mineral resources and humans, recycling mineral resources, distribution of minerals resources across Earth, and international standards in mining, among others. Then it turns to a classification of mineral resources, covering the main types from a geological standpoint. The exploration of mineral resources is also treated, including geophysical methods of exploration, borehole geophysical logging, geochemical methods, drilling methods, and mineral deposit models in exploration. Further, the book addresses the evaluation of mineral resources, from sampling techniques to the economic evaluation of mining projects (i.e. types and density of sampling, mean grade definition and calculation, Sichel's estimator, evaluation methods – classical and geostatistical, economic evaluation – NPV, IRR, and PP, estimation of risk, and software for evaluating mineral resources). It subsequently describes key mineral resource exploitation methods (open pit and underground mining) and the mineral processing required to obtain saleable products (crushing, grinding, sizing, ore separation, and concentrate dewatering, also with some text devoted to tailings dams). Lastly, the book discusses the environmental impact of mining, covering all the aspects of this very important topic, from the description of diverse impacts to the environmental impact assessment (EIA), which is essential in modern mining projects.

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