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Essentials of Igneous and Metamorphic Petrology, which is easy to recommend, is presented in a concise and compelling manner. The book is about 300 pages and is subdivided into eighteen chapters that convey the fundamental principles that govern the mineralogy of igneous and metamorphic rocks.

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The key difference between igneous rocks and metamorphic rocks is that igneous rocks are the oldest rocks on earth, while metamorphic rocks are derivatives of igneous rocks and sedimentary rocks. Igneous rocks, sedimentary rocks, and metamorphic rocks are the major three rock types in the

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earth's crust. Geologist made this classification based on the geological process that formed these rocks.

### *Difference Between Igneous Rocks and Metamorphic Rocks*

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I can highly recommend this book as a well-organized presentation of the essentials of igneous and metamorphic petrology and their application in an up-to-date mix of modern geochemistry and plate tectonics.' American Mineralogist  
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Concise introductory textbook on the petrology of igneous and metamorphic rocks for one-semester courses. Topics are organized around the types of rocks to expect in tectonic environments, rather than around rock classifications. Application boxes engage students by showing how petrology connects to wider aspects of geology. Includes end-of-chapter exercises.

A concise introduction to the mineralogy and petrology of igneous and metamorphic rocks for all Earth Science students.

Igneous and metamorphic petrology has over the last twenty years expanded rapidly into a broad, multifaceted and

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increasingly quantitative science. Advances in geochemistry, geochronology, and geophysics, as well as the appearance of new analytical tools, have all contributed to new ways of thinking about the origin and evolution of magmas, and the processes driving metamorphism. This book is designed to give students a balanced and comprehensive coverage of these new advances, as well as a firm grounding in the classical aspects of igneous and metamorphic petrology. The emphasis throughout is on the processes controlling petrogenesis, but care is taken to present the important descriptive information so crucial to interpretation. One of the most up-to-date synthesis of igneous and metamorphic petrology available. Emphasis throughout on latest experimental and field data. Igneous and metamorphic

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sections can be used independently if necessary.

Introduction to Mineralogy and Petrology, Second Edition presents the essentials in an approach that is accessible to industry professionals, academic researchers and students. The book emphasizes the relationship between rocks and minerals, from the structures created during rock formation straight through to the economics of mineral deposits. While petrology is classified on the lines of geological evolution and rock formation, mineralogy speaks to physical and chemical properties, uses and global occurrences. The book's primary goal is for the reader to identify minerals in all respects, including host-rocks and mineral deposits, mineral-exploration, resources, extraction processes, and their further



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usage. To help provide a comprehensive analysis across ethical and socioeconomic dimensions, a separate chapter describes the hazards associated with minerals, rock and mineral industries, and the consequences to humanity that includes remedies and case studies. Addresses the full scope of core concepts of mineralogy and petrology, including crystal structure, formation and grouping of minerals and soils, definition, origin, structure and classification of igneous, sedimentary and metamorphic rocks Features more than 250 figures, illustrations and color photographs to vividly explore the fundamental principles of mineralogy and petrology Offers a holistic approach to both subjects, beginning with the formation of geologic structures that is followed by the hosting of mineral deposits and the exploration and extraction of

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lucrative, usable products that improve the health of global economies Includes new content on minerals and petrology in extraterrestrial environments and case studies on hazards in the mining industry

A laboratory manual for introductory courses in optical mineralogy. The illustrations are bandw, but available in color on a video cassette from the author. Annotation copyrighted by Book News, Inc., Portland, OR

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For a combined, one-semester, junior/senior-level course in Igneous and

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Metamorphic Petrology. Also useful for programs that teach Igneous Petrology and Metamorphic Petrology. Typical texts on igneous and metamorphic petrology are geared to either advanced or novice petrology students. This unique text offers comprehensive, up-to-date coverage of both igneous and metamorphic petrology in a single volume—and provides the quantitative and technical background required to critically evaluate igneous and metamorphic phenomena in a way that students at all levels can understand. The goal throughout is for students to be able to apply the techniques—and enjoy the insights of the results—rather than tinker with theory and develop everything from first principles.

This textbook provides a basic understanding of the formative

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processes of igneous and metamorphic rock through quantitative applications of simple physical and chemical principles. The book encourages a deeper comprehension of the subject by explaining the petrologic principles rather than simply presenting the student with petrologic facts and terminology. Assuming knowledge of only introductory college-level courses in physics, chemistry, and calculus, it lucidly outlines mathematical derivations fully and at an elementary level, and is ideal for intermediate and advanced courses in igneous and metamorphic petrology. The end-of-chapter quantitative problem sets facilitate student learning by working through simple applications. They also introduce several widely-used thermodynamic software programs for calculating igneous and metamorphic phase equilibria and

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image analysis software. With over 350 illustrations, this revised edition contains valuable new material on the structure of the Earth's mantle and core, the properties and behaviour of magmas, recent results from satellite imaging, and more.

Rock microstructures provide clues for the interpretation of rock history. A good understanding of the physical or structural relationships of minerals and rocks is essential for making the most of more detailed chemical and isotopic analyses of minerals. Ron Vernon discusses the basic processes responsible for the wide variety of microstructures in igneous, sedimentary, metamorphic and deformed rocks, using high-quality colour illustrations. He discusses potential

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complications of interpretation, emphasizing pitfalls, and focussing on the latest techniques and approaches. Opaque minerals (sulphides and oxides) are referred to where appropriate. The comprehensive list of relevant references will be useful for advanced students wishing to delve more deeply into problems of rock microstructure. Senior undergraduate and graduate students of mineralogy, petrology and structural geology will find this book essential reading, and it will also be of interest to students of materials science.

Key concepts in mineralogy and petrology are explained

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alongside beautiful full-color illustrations, in this concisely written textbook.

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