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Meteorites: Petrologic-Chemical
Syn: A Petrologic ...
Meteorites are classified as stony,
stony iron and iron on the basis of

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their proportions of silicate minerals and metallic iron-nickel. A more fundamental distinction is that between the stony meteorites called chondrites and all other meteorites.

Meteorites: A Petrologic, Chemical and Isotopic Synthesis ...

Meteorites: A Petrologic, Chemical and Isotopic Synthesis (Cambridge Planetary Science) by Robert Hutchison (Author)

Meteorites: A Petrologic, Chemical and Isotopic Synthesis ...

Meteorites: A Petrologic, Chemical and Isotopic Synthesis Volume 2 of Cambridge Planetary Science, ISSN 0265-3044: Author: Robert Hutchison: Edition: illustrated, reprint: Publisher: Cambridge...

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Meteorites: A Petrologic, Chemical, and Isotopic Synthesis

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Meteorites: A Petrologic, Chemical and Isotopic Synthesis is a book that invites one to explore the wonders of our solar system and beyond. This book, written by Robert Hutchison, is loosely...

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Synthesis. M. B. Duke. Planetary and Earth Sciences Division, NASA/Johnson Space Center, Houston, Texas. Search for more papers by this author. ... The viewpoint is largely petrographic, but he introduces many aspects of meteorite chemistry and chronology necessary to recognize the pieces that may, or may not ...

Meteorites: A Petrologic-Chemical Synthesis - Duke - 1982 ...

Meteorites, a petrologic-chemical synthesis Dodd, Robert T. Abstract. In this book, an attempt has been made to summarize current knowledge and understanding about meteorites in a manner comprehensible to both professional scientists and

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Isotopic Synthesis. Attention is given to the flux of meteoritic material, major meteorite types, sources ...

Meteorites, a petrologic-chemical synthesis - NASA/ADS

Meteorites: A Petrologic, Chemical and Isotopic Synthesis is a book that invites one to explore the wonders of our solar system and beyond. This book, written by Robert Hutchison, is loosely modeled as an update of the classic volume by Dodd [1981].

Meteorites: A Petrologic, Chemical and Isotopic Synthesis ...

Meteorites : a petrologic, chemical, and isotopic synthesis / Meteorite research is fundamental to our

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understanding of the origin and early history of the Solar System. This text considers the mechanism and timing of core formation and basaltic volcanism on asteroids, and the effects of heating water-rich bodies.

Meteorites : a petrologic,
chemical, and isotopic synthesis

Hutchison, R. Meteorites: A Petrologic, Chemical and Isotopic Synthesis, : Cambridge (Cambridge University Press). Hardback, 2004, ISBN 0 521 47010 2, xiii + 506 pp ...

Hutchison, R. Meteorites: A
Petrologic, Chemical and ...

CO chondrites comprise only type 3 members, although these span a range of petrologic types from

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3.0 to 3.8. Presence of water.

These meteorites either contain a proportion of water or minerals that have been altered by water. This suggests that the asteroid from which these meteorites originate must have contained water.

Chondrite - Wikipedia

Meteorite, any fairly small natural object from interplanetary space—i.e., a meteoroid—that survives its passage through Earth's atmosphere and lands on the surface. In modern usage the term is broadly applied to similar objects that land on the surface of other comparatively large bodies. For instance, meteorite fragments have been found in samples returned from the Moon,

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meteorite | Definition, Types, Identification, & Facts ...

Meteorites: A Petrologic, Chemical and Isotopic Synthesis Paperback – Jan. 29 2007 by Robert Hutchison (Author)

Meteorites: A Petrologic, Chemical and Isotopic Synthesis ...

Meteorites are composed of silicate minerals and/or metallic iron-nickel. The structure of the igneous complex at the Sudbury Mining District, Canada, was formed as the result of a meteorite (1850 Ma age) impact that produced a 150–280 km multiring crater, containing 2–5 km thick sheet of andesitic melt.

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Meteorite - an overview | ScienceDirect Topics

During his career, Wasson wrote two books and more than 300 papers on the chemical and petrologic properties of meteorites and lunar rocks. He even had a chemical named in his honor — “wassonite,”...

John Wasson, UCLA cosmochemist who chased after meteorites ...

CI chondrites, sometimes C1 chondrites, are a group of rare stony meteorites belonging to the carbonaceous chondrites. Samples have been discovered in France, Canada, India, and Tanzania. Compared to all the meteorites found so far, their chemical composition most closely resembles the elemental

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CI chondrite - Wikipedia

Wasson became a global leader in the study of meteorites, and what they reveal about the formation of the solar system, Rubin said. Wasson wrote two books and published more than 300 articles on the chemical and petrologic properties of meteorites.

Introduction to meteorites and many of their properties.

Chemical petrology is essentially the physical chemistry of rocks

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and associated fluids, although it also borrows heavily from such other sciences as mineralogy. In terms of fundamentals it is firmly grounded in chemical thermodynamics and kinetics. In its treatment of terrestrial environments it grades imperceptibly into sedimentology, geochemistry, and geophysics and in extraterrestrial environments into cosmochemistry. It is one of the most important branches of planetology and meteoritics. The unity of approach of thermodynamics and kinetics to processes in these diverse environments is stressed in this book by numerous examples which have been chosen to illuminate different aspects of the

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Isopic Synthesis subject. Thus we have discussed in some depth such problems as the genesis of layered basic complexes, calc-alkaline batholiths, chondritic meteorites, and the surface-atmosphere interaction of the planet Venus because these are important and because they are particularly good illustrations of the chemical petrology approach. Considerable attention also has been devoted to volcanic processes. In our treatment of metamorphism in particular, an attempt has been made to correlate and integrate the vast number of recent experimental, theoretical, and field studies. However, we have not attempted a comprehensive survey of all known rock types or occurrences, nor did we review all

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the diverse opinions and conclusions on the origins of controversial rocks. Instead we have chosen to stress interpretations we regard as following most directly from the evidence.

Primitive Meteorites and Asteroids: Physical, Chemical, and Spectroscopic Observations Paving the Way to Exploration covers the physical, chemical and spectroscopic aspects of asteroids, providing important data and research on carbonaceous chondrites and primitive meteorites. This information is crucial to the success of missions to parent bodies, thus contributing to an understanding of the early solar

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system. The book offers an interdisciplinary perspective relevant to many fields of planetary science, as well as cosmochemistry, planetary astronomy, astrobiology, geology and space engineering. Including contributions from planetary and missions scientists worldwide, the book collects the fundamental knowledge and cutting-edge research on carbonaceous chondrites and their parent bodies into one accessible resource, thus contributing to the future of space exploration. Presents the most current data and information on the mission-relevant characteristics of primitive asteroids Addresses the physical, chemical and spectral characteristics of carbonaceous

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chondritic meteorites and the bearings on successful exploration of their parent asteroids Includes chapters on geotechnical properties and resource extraction

The fifth edition of Catalogue of Meteorites is, like previous editions, an essential reference volume for all those with an informed interest in meteorites. The volume is a complete catalogue of all authenticated meteorites, and gives information on their classification and chemistry. It is the definitive descriptive list of The Natural History Museum, London, which maintains the official world database of all known meteorite falls and finds. It includes the

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10,000 new specimens recovered since publication of the fourth edition, including those from Antarctica and deserts. An important development is the addition of CD-ROM to accompany the book, which includes greatly expanded information (literature references and analytical data for each meteorite) and an important search facility. The Catalogue is the major reference volume for everyone interested in meteorites: professional scientists, meteoriticists, collectors, dealers, and academic libraries.

They range in size from

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microscopic particles to masses of many tons. The geologic diversity of asteroids and other rocky bodies of the solar system are displayed in the enormous variety of textures and mineralogies observed in meteorites. The composition, chemistry, and mineralogy of primitive meteorites collectively provide evidence for a wide variety of chemical and physical processes. This book synthesizes our current understanding of the early solar system, summarizing information about processes that occurred before its formation. It will be valuable as a textbook for graduate education in planetary science and as a reference for meteoriticists and researchers in allied fields worldwide.

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A complete visual reference for meteorite classification, this atlas combines high resolution optical microscope images with detailed descriptions. It provides a systematic account of meteorites and their most important classification parameters, making it an essential resource for meteorite researchers. Each chapter starts with a description of the meteorite class, with a summary of the mineralogical, chemical and isotopic characteristics of the group. The full-color images are taken in plane- and cross-polarized light and reflected light, and arranged to highlight textural variations in meteorites. Specimens are grouped to show the effects of

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Increasing thermal alteration and shock, as well as variations in chondrule size and type. Chapters on iron meteorites, pallasites and mesosiderites are included, photographed as mounts in reflected light, to show the range of textural variations that accompany these meteorites. Images from the book can be downloaded from www.cambridge.org/9780521840354.

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

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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 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

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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 lucrative, usable products that

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improve the health of global
economies Includes new content
on minerals and petrology in
extraterrestrial environments and
case studies on hazards in the
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