

Golden
Books



Science Close-Up **GEMSTONES**



Sm Gemstones Sci Cu

Subramanian Senthilkannan Muthu

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Gemology, the Science of Gem Stones Robert Morrill Shipley, 1936 **English Mechanic and Mirror of Science and Art**, 1891 *Ceramics Science and Technology, Volume 2* Ralf Riedel, I-Wei Chen, 2015-11-20 Although ceramics have been known to mankind literally for millennia research has never ceased Apart from the classic uses as a bulk material in pottery construction and decoration the latter half of the twentieth century saw an explosive growth of application fields such as electrical and thermal insulators wear resistant bearings surface coatings lightweight armour or aerospace materials In addition to plain hard solids modern ceramics come in many new guises such as fabrics ultrathin films microstructures and hybrid composites Built on the solid foundations laid down by the 20 volume series *Materials Science and Technology* *Ceramics Science and Technology* picks out this exciting material class and illuminates it from all sides Materials scientists engineers chemists biochemists physicists and medical researchers alike will find this work a treasure trove for a wide range of ceramics knowledge from theory and fundamentals to practical approaches and problem solutions **Sustainable Packaging** Subramanian Senthilkannan Muthu, 2021-09-07 Packaging plays a major role in the environmental footprints of products from any industrial sector and thus is important to address the sustainability issues of packaging Packaging and the packaging sector have to be eco conscious as there are many types of packaging across various industrial sectors and so are their environmental impacts as well Plastic packaging is one of the most common element and the packaging sector accounts for almost 40% of plastic pollution in the world Sustainable packaging is the only way forward to alleviate the environmental devastations from the the packaging sector This book presents case studies and discusses how to make packaging more sustainable for a better future *English Mechanic and World of Science*, 1891 *English Mechanic and Mirror of Science*, 1878 *Indian Journal of History of Science*, 1968 **The Naturalists' Leisure Hour and Monthly Bulletin**, 1888

Treatise on Geochemistry, 2013-10-19 This extensively updated new edition of the widely acclaimed *Treatise on Geochemistry* has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology organic geochemistry and analytical geochemistry In addition the original Volume 1 on Meteorites Comets and Planets was expanded into two separate volumes dealing with meteorites and planets respectively These additions increased the number of volumes in the *Treatise* from 9 to 15 with the index appendices volume remaining as the last volume Volume 16 Each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions As a result 27% were republished without major changes 66% were revised and 126 new chapters were added In a many faceted field such as Geochemistry explaining and understanding how one sub field relates to another is key Instructors will find the complete overviews with extensive cross referencing useful additions to their course packs and students will benefit from the contextual organization of the subject matter Six new volumes added and 66% updated from

1st edition The Editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition The esteemed Board of Volume Editors and Editors in Chief worked cohesively to ensure a uniform and consistent approach to the content which is an amazing accomplishment for a 15 volume work 16 volumes including index volume **Gems & Gemology**, 1996 **The Journal of Gemmology**, 1998 Vols for July 1964 include Proceedings of the Gemmological Association of Great Britain **Nuclear Science Abstracts**, 1972 Phenomenal Crystals Ilia Deleff, 2004 The author headed for South America at the age of twenty five with a clear aim to do something in his life Fascinated by the beauty of quartz crystals in Brazil he started to collect them enthusiastically and he is now the only collector of giant crystals in the world Conquered by their secret power and the perfection of their forms he penetrated the intimate world of crystals and marveled at the magnificent play of light reflected on their smooth faces Some of the phenomenal crystals survived hundreds of millions of years untouched Contents include The journey of one's life The collections of phenomenal giant crystals and their fate The mineral treasures of Brazil

Dictionary of Gems and Gemology Mohsen Manutchehr-Danai, 2013-03-09 Since World War II the amount of information generated in the science of Gemology has increased tremendously Therefore this book Dictionary of Gems and Gemology was written with the aim of providing a relatively complete dictionary to assist all students hobbyists scientists and interested parties in the fields of Gems and Gemology The forerunner to this book was called Dictionary of Gems and Gemology English Persian Persian English published in Tehran Iran in 1997 It was written with the aid of more than thirty reference books relating to gemology In response to the effort required to clarify the terms within I decided to compile a book that brings all the relevant terms into one book This new book eliminates the use of different reference books and compiles nearly all the relevant terms into a one stop useful text It took twenty five years to collect the terms and the information so as to present a complete and functional lexicon The text is supported by nearly 170 illustrations and 21 tables to provide detailed and succinct information I hope and trust that this book will reach the high standard of other gemological dictionaries If you have criticisms or suggestions please feel free to contact me Professor Dr Mohsen Manutchehr Danai Los Angeles Tehran Regensburg Acknowledgments The author acknowledges all those who were of valuable assistance during the writing and publishing of this book **The American Bookseller**, 1889 Springer Handbook of Crystal Growth Govindhan Dhanaraj, Kullaiyah Byrappa, Vishwanath Prasad, Michael Dudley, 2010-10-20 Over the years many successful attempts have been chapters in this part describe the well known processes made to describe the art and science of crystal growth such as Czochralski Kyropoulos Bridgman and so on and many review articles monographs symposiums focusing on and focus specifically on recent advances in minerals and handbooks have been published to present improving these methodologies such as application of comprehensive reviews of the advances made in this magnetic field orientation of the growth axis introduced These publications are testament to the production of a pedestal and shaped growth They also interest in both bulk and thin

In crystals because cover a wide range of materials from silicon and III V of their electronic optical mechanical microstructural compounds to oxides and uorides and other properties and their diverse scienti c and The third part Part C of the book focuses on technological applications Indeed most modern ad lution growth The various aspects of hydrothermal vances in semiconductor and optical devices would growth are discussed in two chapters while three other not have been possible without the development of chapters present an overview of the nonlinear and laser many elemental binary ternary and other compound crystals KTP and KDP The knowledge on the effect of crystals of varying properties and large sizes The gravity on solution growth is presented through a c literature devoted to basic understanding of growth parison of growth on Earth versus in a microgravity mechanisms defect formation and growth processes environment

Mineral Deposits and Occurrences in the Arabian-Nubian Shield Ahmed Hassan Ahmed, 2022-03-18 This book presents a detailed review of the mineral deposits and occurrences in the Arabian Nubian Shield ANS including their distribution mineralization styles economic importance and geological controls on the mineralization The purpose of the book is to compile the results of past and recent investigations on mineral deposits and occurrences in the ANS that covering the countries of Saudi Arabia Yemen Egypt Sudan Eritrea and Ethiopia In this regard it discusses in detail the various genetic mineralization styles in the ANS including 1 magmatic mineral deposits associated with mafic ultramafic rocks e g chromite Ni Cu Co PGE magmatic sulfides Fe Ti V oxides 2 intrusion related magmatic hydrothermal deposits associated with felsic to intermediate rocks porphyry epithermal Au Ag sulfide vein type family skarn granite related pegmatite REE deposits 3 hydrothermal orogenic gold and volcanogenic massive sulfide VMS deposits as well as 4 surficial mineral deposits chemical sedimentary residual mechanical and supergene enrichment deposits

Handbook of Radioactivity Analysis Michael F. L'Annunziata, 2012-09-01 The updated and much expanded 3e of the Handbook of Radioactivity Analysis is an authoritative reference providing the principles practical techniques and procedures for the accurate measurement of radioactivity from the very low levels encountered in the environment to higher levels measured in radioisotope research clinical laboratories biological sciences radionuclide standardization nuclear medicine nuclear power and fuel cycle facilities and in the implementation of nuclear forensic analysis and nuclear safeguards The book describes the basic principles of radiation detection and measurement and the preparation of samples from a wide variety of matrices assists the investigator or technician in the selection and use of appropriate radiation detectors and presents state of the art methods of analysis Fundamentals of radiation properties radionuclide decay the calculations involved and methods of detection provide the basis for a thorough understanding of the analytical procedures The Handbook of Radioactivity Analysis 3e is suitable as a teaching text for university and professional training courses The only comprehensive reference that describes the principles of detection and practical applications of every type of radioactivity detector currently used The new 3e is broader in scope with revised and expanded chapters new authors and seven new chapters on Alpha Spectrometry Radionuclide Standardization Radioactive Aerosol Measurements

Environmental Radioactivity Monitoring Marine Radioactivity Analysis Nuclear Forensic Analysis and Analytical Techniques in Nuclear Safeguards Discusses in detail the principles theory and practice applied to all types of radiation detection and measurement making it useful for both teaching and research **Willis's Price Current** ,1856 *Minerals and Allied Natural Resources and their Sustainable Development* Mihir Deb, Sanjib Chandra Sarkar, 2017-06-19 Nonrenewable natural resources metallic and non metallic minerals industrial rocks and energy resources both organic and inorganic have been treated in a holistic manner in this book including two important resources soil and water not commonly covered in most books on this topic For the uninitiated reader an introductory chapter looks into some basic definitions as well as nature and characteristics of mineral deposits followed by a chapter on the different crustal processes that produce the various ore deposits in the endogenous and exogenous environments The strength of the book lies in its critical treatment of the genetic processes of the mineral deposits their classification and the geodynamic context of metallogeny and coverage of sustainable development of mineral deposits with special reference to various socio economic as well as regulatory and environmental issues that face the Indian mining industry today The text is punctuated with examples of Indian deposits balanced with classical deposits around the world to cater to the interests of Indian students and the international readership This is a book for advanced undergraduate and post graduate students of Geology Environmental Sciences and Natural Resource Management

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