

## Dms Ni Massive

Northern Ireland  
 Autoantibodies and Autoimmunity  
 Vitreoretinal Surgical Techniques, Second Edition  
 Astronomy with Radioactivities  
 Massive Stars in Starbursts  
 Silicone Oil in Vitreoretinal Surgery  
 Optical Properties and Applications of Semiconductors  
 Transactions of the Japan Institute of Metals  
 Massive Neutrinos: Flavor Mixing Of Leptons And Neutrino Oscillations  
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 Revista Matemática Iberoamericana  
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 Astrophysics with Radioactive Isotopes  
 Materials Transactions, JIM.  
 Geology of Ore Deposits  
 Proceedings and Abstracts for the ... Annual Institute on Lake Superior Geology  
 Nucleosynthesis and Its Implications on Nuclear and Particle Physics  
 XI IAU Regional Latin American Meeting of Astronomy  
 4M 2005 - First International Conference on Multi-Material Micro Manufacture  
 Bulletin  
 Medical Management of the Thoracic Surgery Patient E-Book  
 Geological Survey of Canada, Open File 3057  
 Acoustical Physics  
 Current Research, Part C  
 The Rise of Discourse Markers  
 Petrogenesis and Exploration of the Earth's Interior  
 Encyclopedia Of Cosmology, The (In 4 Volumes)  
 Rosai and Ackerman's Surgical Pathology E-Book  
 Welding Journal  
 Giant Metallic Deposits  
 Metallurgy in Space  
 Apartheid-caused Debt  
 Journal of Sedimentary Petrology  
 Innovative and Applied Research on Platinum-Group and Rare Earth Elements  
 Acute Pulmonary Embolism  
 Materials Transactions  
 Cumulated Index Medicus  
 Physics for Scientists and Engineers, Volume 1  
 Glacial Geology and Geomorphology

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### **FARRELL GRIFFITH**

[Northern Ireland](#) MDPI

This edited volume is based on the best papers accepted for presentation during the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018. The book is of interest to all researchers in the fields of Mineralogy, Geochemistry, Petrology and Volcanology. The Earth's interior is a source of heat, which makes our planet unique. This source regulates the formation and evolution of rocks at larger scales, and of minerals and sediments toward smaller scales. In such context, the exploration of georesources (products) has to be related to petrogenesis (processes). This volume offers an overview of the state-of-the-art petrogenesis and exploration in, but not limited to, the Middle East and Mediterranean regions. It gives new insights into processes and products related to the Earth's interior, and associated georesources by international researchers. Main topics include: 1. Petrogenetic processes: geochemistry, geochronology and geophysical approaches 2. Surficial processes: sedimentation and facies analysis 3. Applied mineralogy and tectonics 4. Geological research applied to mineral deposits

**Autoantibodies and Autoimmunity** World Scientific

Proceedings of the NATO Advanced Research Workshop (Fifth Moriond Astrophysics Meeting), Les Arcs, France, March 17-23, 1985

[Vitreoretinal Surgical Techniques, Second Edition](#) Cambridge University Press

The Encyclopedia of Cosmology, in four volumes, is a major, long-lasting, seminal reference at the graduate student level, laid out by the most prominent, respected researchers in the general field of Cosmology. These volumes will be a comprehensive review of the most important concepts and current status in the field, covering both theory and observation. One of the attractive features of the encyclopedia is that it is accompanied by supplementary materials including videos and simulations of the numerical computation. This will help the readers to better understand and visualize the concepts discussed. This encyclopedia is edited by Dr. Giovanni Fazio from Harvard Smithsonian Center for Astrophysics, with an advisory board comprised of renowned scientists: Lars Hernquist and Abraham Loeb (Harvard Smithsonian Center for Astrophysics), and Christopher McKee (UC Berkeley). Each volume is authored/edited by a specialist in the area: Galaxy Formation and Evolution written by Rennan Barkana (Tel Aviv University), Numerical Simulations in Cosmology edited by Kentaro Nagamine (Osaka University / University of Nevada), Dark Energy written by Shinji Tsujikawa (Tokyo University of Science), and Dark Matter written by Jihn E Kim (Seoul National University).

[Astronomy with Radioactivities](#) Elsevier Health Sciences

Designed as a practical, succinct guide, for quick reference by clinicians with everyday questions, this title guides the reader through the range of approaches available for diagnosis, management, or prevention of hemorrhagic and thrombotic diseases or disorders. Provides essential practical management for all those working in the field of hemostasis and thrombosis Includes new chapters on direct oral anticoagulants, acquired inhibitors

of coagulation, and expanded discussion of thrombotic microangiopathies Covers in a clear and succinct format, the diagnosis, treatment and prevention of thrombotic and haemostatic disorders Follows templated chapter formats for rapid referral, including key points and summary boxes, and further reading Highlights controversial issues and provides advice for everyday questions encountered in the clinic

*Massive Stars in Starbursts* Springer

Metals in the earth's crust are very unevenly distributed and, traditionally, a small number of ore deposits, districts or countries have dominated the world supply and have influenced commodity prices. The importance of exceptionally large, or rich, deposits has greatly increased in the age of globalization when a small number of international corporations dominate the metals market, based on few very large ore deposits, practically anywhere in the world. Search for giant orebodies thus drives the exploration industry: not only the in-house teams of large internationals, but also hundreds of junior companies hoping to sell their significant discoveries to the "big boys". Geological characteristics of giant metallic deposits and their setting and the politico-economic constraints of access to and exploitation in prospective areas have been a "hot topic" in the past fifteen years, but the knowledge generated and published has been one-sided, scattered and fragmented. This is the first comprehensive book on the subject that provides body of solid facts rather than rapidly changing theories, written by author of the Empirical Metallogeny book series and founder of the Data Metallogena visual knowledge system on mineral deposits of the world, who has had an almost 40 years long international academic and industrial experience. The book will provide abundant material for comparative research in metallogeny, practical information for the explorationists as to where to look for the "elephants", and some inspiration for commodity investors.

*Silicone Oil in Vitreoretinal Surgery* Springer Science & Business Media

4M 2005 - First International Conference on Multi-Material Micro Manufacture

*Optical Properties and Applications of Semiconductors* Elsevier

This book introduces the reader to the field of nuclear astrophysics, i.e. the acquisition and reading of measurements on unstable isotopes in different parts of the universe. The authors explain the role of radioactivities in astrophysics, discuss specific sources of cosmic isotopes and in which special regions they can be observed. More specifically, the authors address stars of different types, stellar explosions which terminate stellar evolutions, and other explosions triggered by mass transfers and instabilities in binary stars. They also address nuclear reactions and transport processes in interstellar space, in the contexts of cosmic rays and of chemical evolution. A special chapter is dedicated to the solar system which even provides material samples. The book also contains a description of key tools which astrophysicists employ in those particular studies and a glossary of key terms in astronomy with radioactivities.

*Transactions of the Japan Institute of Metals* Natural Resources Canada

The value of echocardiography in the diagnostic work-up of patients with suspected acute pulmonary embolism.- New developments in the thrombolytic therapy of venous thrombosis.- Mechanism of blood coagulation. Newer aspects of anticoagulant and antithrombotic therapy.MR-angiography in the diagnosis of pulmonary embolism.Scintigraphy-ventilation/perfusion scanning and imaging of the embolus.- Clinical course and prognosis of acute pulmonary embolism.- The molecular mechanisms of inherited thrombophilia.

*Massive Neutrinos: Flavor Mixing Of Leptons And Neutrino Oscillations* Springer

This is the first book to address all aspects of the biology of autoantibodies in a single volume, including a discussion of immunology, experimental models, clinical aspects, and the use of autoantibodies as probes in molecular and cellular biology. The editor, currently professor at the W.M. Keck Autoimmune Disease Center of The Scripps Research Institute, has assembled an all-star team of authors to report on the latest research, technologies, and applications. Following an introductory chapter, the book goes on to cover such topics as cellular mechanisms of autoantibody production, clinical and diagnostic usefulness in human disease, and animal models used to study the elicitation of autoantibodies. The whole is rounded off with a look at future perspectives. With its comprehensive coverage, this volume will appeal not only to immunologists and clinicians but also to cell and molecular biologists.

*Practical Hemostasis and Thrombosis* Springer Science & Business Media

Reviews the importance of massive stars in several areas of astrophysics.

*Revista Matemática Iberoamericana* World Scientific

Discourse markers constitute an important part of linguistic communication, and research on this phenomenon has been a thriving field of study over the past three decades. However, a problem that has plagued this research is that these markers exhibit a number of structural characteristics that are hard to interpret based on existing methodologies, such as grammaticalization. This study argues that it is possible to explain such characteristics in a meaningful way. It presents a cross-linguistic survey of the development of discourse markers, their important role in communication, and their relation to the wider context of sociocultural behaviour, with the goal of explaining their similarities and differences across a typologically wide range of languages. By giving a clear definition of discourse markers, it aims to provide a guide for future research, making it essential reading for students and researchers in linguistics, and anyone interested in exploring this fascinating linguistic phenomenon.

*Luminous Stars in Nearby Galaxies* Springer Nature

Studies on the populations of luminous stars in nearby resolved galaxies have revealed a complex distribution in the luminosity-temperature plane (the HR diagram). The fundamentals of massive star evolution are mostly understood, but the roles of mass loss, episodic mass loss, rotation, and binarity are still in question. Moreover, the final stages of these stars of different masses and their possible relation to each other are not understood. The purpose of this volume is to provide a current review of the different populations of evolved massive stars. The emphasis is on massive stars in the Local Group, the Magellanic Clouds, and the nearby spirals M31 and M33.

*American Journal of Physics* Springer Science & Business Media

This book (Special Issue) presents the geological environment, physical/chemical properties, and crystallographic data for two new minerals associated with chromitites from the Othrys ophiolite complex: Eliopoulosite, V7S8/IMA2019-96, and Grammatikopoulosite, NiVP/IMA2019-090. The distribution, mineralogy, and field relationships of PGE-enriched ores, which are important for our understanding of the metallogenic controls on the

concentration of PGE and their exploration, are addressed in papers, providing (a) the first detailed data on the chromitites and platinum-group elements (PGE) mineralization from Ulan-Sar'dag ophiolite, Central Asian Fold Belt/East Sayan, Russia, (b) peculiarities on the distribution of PGE in arsenopyrites and pyrites from the Natalkinskoe gold ore deposit, NE Russia, and (c) the occurrence of zoned laurite found in the Merensky Reef of the Bushveld layered intrusion, South Africa, characterized by textural/compositional features suggesting "hydrothermal" origin. Two papers deal with (a) the rare earth element (REE) distribution in various mineral deposits of Sweden, obtained during the EURARE project, and their application to the exploration of REE and (b) the optimization of the beneficiation process for the REE recovery from black sands. Five papers provide new data of genetic and exploration significance on trace elements, including REE and PGE in various ore-types, and factors controlling the Cr stable isotope ( $\delta^{53}\text{Cr}$  values) in chromitites from the Balkan peninsula.

*Astrophysics with Radioactive Isotopes* Springer Science & Business Media

With this book, Dr. Zivojnovic presents to the ophthalmic community the long awaited detailed report of his surgical concepts and operative techniques in the field of vitreoretinal surgery. It is fascinating to read how his concepts for the treatment of complicated retinal detachments evolved from the intra ocular use of silicone oil to a combination of vitreous surgery with silicone oil tamponade. The next step was surgical treatment of the retina itself. It takes an unconventional mind to break major taboos and to state the retinotomies and retinectomies are necessary if scar tissue cannot be surgically removed and that buckling procedures are no longer necessary to treat retinal breaks. This book discusses the use of silicone oil in vitreoretinal surgery. Silicone oil tamponade has been proven to be a major step forward in vitreoretinal surgery and the reported results speak for themselves. The reader may have the impression that silicone is thought to be indispensable for almost all cases undergoing this type of surgery but this modality is used to treat severe cases where the chances of success are greatly enhanced by using silicone oil. Dr. Zivojnovic remains the forerunner and great surgeon who readily admits the limitations of his techniques: 'The surgical operative treatment is only partly adequate and, unfortunately, despite the correctly performed operation, often does not lead to the desired result'.

*Materials Transactions, JIM*. CRC Press

Semiconductors with optical characteristics have found widespread use in evolving semiconductor photovoltaics, where optical features are important. The industrialization of semiconductors and their allied applications have paved the way for optical measurement techniques to be used in new ways. Due to their unique properties, semiconductors are key components in the daily employed technologies in healthcare, computing, communications, green energy, and a range of other uses. This book examines the fundamental optical properties and applications of semiconductors. It summarizes the information as well as the optical characteristics and applicability of semiconductors through an in-depth review of the literature. Accomplished experts in the field share their knowledge and examine new developments. FEATURES Comprehensive coverage of all types of optical applications using semiconductors Explores relevant composite materials and devices for each application Addresses the optical properties of crystalline and amorphous semiconductors Describes new developments in the field and future potential applications Optical Properties and Applications of Semiconductors is a comprehensive reference and an invaluable resource for engineers, scientists, academics, and industry R&D teams working in applied physics.

*Geology of Ore Deposits* MDPI

This book presents experimental work conducted on the International Space Station (ISS) in order to characterize metals and alloys in the liquid state. The internationally recognized authors present and discuss experiments performed in microgravity that enabled the study of the relevant volume and surface related properties free of the restrictions of a gravity-based environment. The collection serves also as a handbook of space experiments using electromagnetic levitation techniques. A summary of recent results provides an overview of the wealth of space experiment data, which will ignite further research activities and inspire academics and industrial research departments for their continuous development.

**Proceedings and Abstracts for the ... Annual Institute on Lake Superior Geology** London : CSE Books

Dealing with astrophysics derived from the radiation emitted by radioactive atomic nuclei, this book describes the different methods used to measure cosmic radio-isotopes. It demonstrates how this astronomical window has contributed to the understanding of the sources and the chemical evolution of cosmic gas. Reference materials and explanations are included for students in advanced stages of their education. Nuclear reactions in different sites across the universe lead to the production of stable and unstable nuclei. Their abundances can be measured through different methods, allowing to study the various nuclear processes taking place in cosmic environments. Nucleosynthesis is the cosmic formation of new nuclear species, starting from hydrogen and helium resulting from the big bang origins. Stars create and eject synthesized nuclei during their evolution and explosions. Incorporation of the new interstellar composition into next-generation stars characterises the compositional (chemical) evolution of cosmic gas in and between galaxies. Radioactive species have unique messages about how this occurs. Since the first Edition of this book published in 2011 with the title Astronomy with Radioactivities, long-awaited new direct observations of supernova radioactivity have been made and are now addressed in two updated chapters dealing with supernovae. In this second Edition, the advances of recent years beyond one-dimensional treatments of stellar structure and stellar explosions towards 3-dimensional models have been included, and led to significant re-writings in Chapters 3-5. The sections on the Solar System origins have been re-written to account for new insights into the evolution of giant molecular clouds. The chapter on diffuse radioactivities now also includes material measurements of radioactivities in the current solar system, and their interpretations for recent nucleosynthesis activity in our Galaxy. Significant new results on gamma-rays from positron annihilations have been accounted for in that chapter, and led to new links with nucleosynthesis sources as well as interstellar transport processes. A new chapter now provides a description of interstellar processes often called 'chemical evolution', thus linking the creation of new nuclei to their abundance observations in gas and stars. The experimental / instrumental chapters on nuclear reaction measurements, on gamma-ray telescopes, and pre-solar grain laboratories have been updated. Moreover, new windows of astronomy that have been opened up in recent years have been included in the discussions of the multi-messenger approach that broadens the basis for astrophysical insights.

*Nucleosynthesis and Its Implications on Nuclear and Particle Physics* Springer Science & Business Media

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**XI IAU Regional Latin American Meeting of Astronomy** Dunedin Academic PressLtd

Ireland's position on the fringe of Europe in the climatically sensitive north-eastern North Atlantic makes it an ideal laboratory for identifying terrestrial evidence for climatic signals. This work gives a history of the regional geological, geomorphological and geochronological evidence used in ice sheet reconstruction.

4M 2005 - First International Conference on Multi-Material Micro Manufacture John Wiley & Sons

Current research being conducted in the Canadian Shield area, covering electromagnetic surveys, mineral distribution, volcanism, and tectonics. Each paper includes an abstract and bibliography.