

THE GEOLOGICAL FIELD GUIDE SERIES

The Field Description of Igneous Rocks

SECOND EDITION



Dougal Jerram and Nick Petford

Field Description Of Igneous Rocks

Dougal Jerram, Mark Caddick



Field Description Of Igneous Rocks:

The Field Description of Igneous Rocks R. S. Thorpe, Geoff C. Brown, 1985 This is a companion volume to the handbooks on sedimentary and metamorphic rocks published by the Geological Society of London in association with the Open University Press Despite the title this is more than just a guide to the study of igneous rocks in the field it provides a concise compact survey of many facets of igneous petrology The chapter on volcanic rocks provides a particularly clear exposition of the various features encountered in modern volcanic environments although serious students should know that palaeovolcanic rocks cannot always be satisfactorily interpreted in these terms There is also a welcome coverage of the mineral deposits often associated with the later stages of granitic activity The diagrams are clear and relevant although some of the photographs suffered during reproduction It would serve as a general introductory text although it would need to a companion volume on thin section petrology at least for more serious students of the subject Recommended as a well balanced attempt to foster a sensible rational approach to the mysteries of igneous rocks in the field It also fits the pocket literally and figuratively

The Field Description of Metamorphic Rocks Dougal Jerram, Mark Caddick, 2022-03-01 The Field Description of Metamorphic Rocks The Field Description of Metamorphic Rocks Second Edition This pocket sized field guide describes how metamorphic rocks and rock masses may be observed recorded and mapped in the field Written at a level suitable for Earth Science undergraduate students this book is an essential tool for any geologist student professional or amateur faced with the task of making a general description of an area of metamorphic rocks A clear systematic framework together with numerous colour diagrams illustrations and checklists enables readers with different backgrounds to produce useful descriptions despite possible differences of background or specialist interest Additional information is also provided to aid those who are undertaking field mapping courses or must compile field evidence into reports on the metamorphic evolution of a region This book Shows the reader how to observe metamorphic rocks in the field from the outcrop to the hand specimen scale Is fully revised and updated to incorporate new developments in the field Offers a user friendly and accessible writing style including a revised format with tabbed sections for easy navigation Covers key topics including classification and mapping of metamorphic rocks understanding key textures and fabrics and details on contacts and fault zones

The Field Description of Igneous Rocks Dougal Jerram, Nick Petford, 2011-07-13 The Second Edition of this unique pocket field guide has been thoroughly revised and updated to include advances in physical volcanology emplacement of magmas and interpreting structures and textures in igneous rocks The book integrates new field based techniques AMS and geophysical studies of pluton shape with new topics on magma mixing and mingling sill emplacement and magma sediment interaction Part of the successful Field Guide series this book includes revised sections on granitic and basaltic rocks and for the first time a new chapter on the engineering properties of igneous rocks The Geological Field Guide Series is specifically designed for scientists and students to use in the field when information and resources may be more difficult to

access Many editions have been updated for 2011 and the guides are Student friendly in design and cost Durable Lightweight Pocket sized Reliable Concise Visit the series homepage at <http://www.wiley.com/go/geologicalfield>

The Field Description of Metamorphic Rocks Norman Fry, 2013-05-03 Geological Society of London Handbook Series Edited by Keith Cox Founded in 1807 the Geological Society of London has been publishing since 1845 and now distributes its journal to Fellows throughout the world This Handbook is published as part of a series of authoritative practical guides to field geology The Field Description of Metamorphic Rocks This handbook describes how metamorphic rocks and rock masses may be observed recorded and mapped in the field Written at a level suitable for undergraduate students of geology this book as with its companion volumes in the series has firmly established itself as an essential tool for any geologist student professional or amateur faced with the task of making a general description of an area of metamorphic rocks A clear systematic framework together with numerous diagrams illustrations and checklists enables readers to produce useful and broadly similar descriptions despite possible differences of background or specialist interest This well written and well produced little text will I am certain become standard reading for most geology undergraduates It will also interest many geologists who do not regularly work in metamorphic terrains and will be particularly useful to engineering geologists and civil engineers who are often concerned with describing the fabrics of metamorphic rocks without being concerned about their origins M E Jones Mineralogical Magazine Contents Metamorphic Fieldwork and Mapping Names and Categories of Metamorphic Rocks and Rock Units Rock Banding Minerals Compositions Grade Textures Fabric Types Relations to Structures Undeformed Pods Augen Pseudomorphs Veins Igneous Contacts Metasomatism Reaction Zones Fault Zones and Mylonites Reference Tables and Checklists

Preliminary Report on the McKittrick-Sunset Oil Region, Kern and San Luis Obispo Counties, California Ralph Arnold, Harry R. Johnson, 1910

Igneous Rocks and Their Origin Reginald Aldworth Daly, 1914

Bulletin of the United States Geological Survey Geological Survey (U.S.), 1907

GRITS/STAT V 4.21, 1994

The Field Description of Igneous Rocks, 1993

Bulletin, 1926

The Mercury Minerals from Terlingua, Texas William Francis Hillebrand, Waldemar Theodore Schaller, 1909

The Mapping of Geological Structures K. R. McClay, 2013-06-17 Detailed mapping and analysis of the structural features of rocks enable the 3D geometry of their structures to be reconstructed The resulting evidence of the stresses and movement patterns which rocks have undergone indicates the processes by which they were formed and allows evaluation of past deformations of the earth's crust Written to show how one actually describes measures and records rock structures such as folds and faults with the emphasis on accuracy detail and on going interpretation throughout this handbook gives students and enthusiasts the practical information and guidance which allows their fieldwork to become vastly more rewarding the author is to be congratulated on producing such an excellent text The whole range of mapping techniques that an undergraduate student will require are described and the book will still be immense help to post graduates setting out on their research work The book represents

extremely good value and is thoroughly recommended C R L Friend Mineralogical Magazine

Basic Geological Mapping Richard J. Lisle, Peter Brabham, John W. Barnes, 2011-09-13 Part of The Geological Field Guide Series Basic Geological Mapping 5th Edition is an essential basic guide to field techniques in mapping geology Now completely revised and updated the book retains the concise clarity which has made it an indispensable instant reference in its previous editions It provides the reader with all the necessary practical information and techniques that they will need while carrying out work in the field covering a wide spectrum of different conditions needs and types of countries This edition covers new developments in technology including Google Earth and the use of GPS This is an ideal field guide to geological mapping for 2nd 3rd year undergraduates of Geology Hydrogeology and Geological Engineering

Mesozoic Floras of Queensland John Hector Reid, Arthur Bache Walkom, Geological Survey of Queensland, Russell Dixon, 1916 Publication , 1917 Includes Its Bulletin and Records *Publication - Geological Survey of Queensland* Geological Survey of Queensland, 1915 Includes Its Bulletin and Records *The Charters Towers Goldfield* John Hector Reid, 1917

Petrology Gautam Sen, 2013-11-19 This undergraduate textbook on the key subject of geology closely follows the core curriculum adopted by most universities throughout the world and is a must for every geology student It covers all aspects of petrology including not only the principles of petrology but also applications to the origin composition and field relationships of rocks Although petrology is commonly taught in the junior year this book is a useful resource for graduate students as well

Hiking Oregon's Geology John Eliot Allen, Ellen Morris Bishop, 2004-02-13 90 hikes many off the beaten path Appendices list hikes by rock age collectible minerals or fossils present and more plus a new illustrated section on rock identification Visit tropical islands sequestered in the Wallowa Mountains ancient volcanoes in the depths of Hells Canyon and Cascade valleys carved by glaciers towering far above your head All it takes is a little imagination yours and geologic savvy provided by a professional Aided by photos and illustrations unlock the mysteries of the landscape through which you walk Professional guidebook writer Ellen Morris Bishop Ph D also a geologist and written numerous books on geology and teaches geology at Lewis and Clark College in Portland

Basics of Environmental Science Michael Allaby, 2002-01-04 The new edition of this popular student text offers an engaging introduction to environmental study It covers the entire breadth of the environmental sciences providing concise non technical explanations of physical processes and systems and the effects of human activities In this second edition the scientific background to major environmental issues is clearly explained These include global warming genetically modified foods desertification acid rain deforestation human population growth depleting resources nuclear power generation descriptions of the 10 major biomes Special student text features include illustrations and explanatory diagrams boxed case studies concepts and definitions

Unveiling the Energy of Verbal Art: An Mental Sojourn through **Field Description Of Igneous Rocks**

In a world inundated with screens and the cacophony of quick transmission, the profound energy and mental resonance of verbal art frequently disappear into obscurity, eclipsed by the regular barrage of sound and distractions. However, nestled within the lyrical pages of **Field Description Of Igneous Rocks**, a fascinating perform of fictional splendor that impulses with raw thoughts, lies an unique trip waiting to be embarked upon. Published with a virtuoso wordsmith, this enchanting opus guides readers on an emotional odyssey, delicately revealing the latent possible and profound affect embedded within the delicate web of language. Within the heart-wrenching expanse with this evocative evaluation, we will embark upon an introspective exploration of the book is key styles, dissect its interesting publishing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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Table of Contents Field Description Of Igneous Rocks

1. Understanding the eBook Field Description Of Igneous Rocks
 - The Rise of Digital Reading Field Description Of Igneous Rocks
 - Advantages of eBooks Over Traditional Books
2. Identifying Field Description Of Igneous Rocks
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Field Description Of Igneous Rocks
 - User-Friendly Interface
4. Exploring eBook Recommendations from Field Description Of Igneous Rocks

- Personalized Recommendations
- Field Description Of Igneous Rocks User Reviews and Ratings
- Field Description Of Igneous Rocks and Bestseller Lists
- 5. Accessing Field Description Of Igneous Rocks Free and Paid eBooks
 - Field Description Of Igneous Rocks Public Domain eBooks
 - Field Description Of Igneous Rocks eBook Subscription Services
 - Field Description Of Igneous Rocks Budget-Friendly Options
- 6. Navigating Field Description Of Igneous Rocks eBook Formats
 - ePub, PDF, MOBI, and More
 - Field Description Of Igneous Rocks Compatibility with Devices
 - Field Description Of Igneous Rocks Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Field Description Of Igneous Rocks
 - Highlighting and Note-Taking Field Description Of Igneous Rocks
 - Interactive Elements Field Description Of Igneous Rocks
- 8. Staying Engaged with Field Description Of Igneous Rocks
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Field Description Of Igneous Rocks
- 9. Balancing eBooks and Physical Books Field Description Of Igneous Rocks
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Field Description Of Igneous Rocks
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Field Description Of Igneous Rocks
 - Setting Reading Goals Field Description Of Igneous Rocks
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Field Description Of Igneous Rocks

- Fact-Checking eBook Content of Field Description Of Igneous Rocks
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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