

Read Online  
Meteorite Value  
How Much Are  
**Meteorite**  
Meteorites Worth  
**Value How**  
**Much Are**  
**Meteorites**  
**Worth**

In 1931, the cluster of craters at Henbury Cattle Station south of Alice Springs in Central Australia was

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one of the first places on Earth where a group of impact structures could definitely be linked to the fall of iron meteorites. It was also the first place where radial rays and loops of ejected rock material, comparable to those seen around craters on the Moon,

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were observed. As such it was one of the primary observation sites associated with the science of meteoritics in its infancy. In this work the authors present previously unpublished documents covering early research at the Henbury site, provide

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an extended data set on the distribution of meteoritic material at Henbury craters, and compare recent discoveries on the mechanics of hypervelocity impacts with evidence collected over 80 years of research at the Henbury meteorite craters. In their

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conclusion, the authors suggest a new hypothesis for the fragmentation and incident direction of the crater-forming bolide, on the basis of a more complete set of data compared with previous models.

Volume 1 provides a broad overview of the chemistry of the solar

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system. It includes chapters on the origin of the elements and solar system abundances, the solar nebula and planet formation, meteorite classification, the major types of meteorites, important processes in early solar system history, geochemistry of the

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terrestrial planets, the giant planets and their satellite, comets, and the formation and early differentiation of the Earth. This volume is intended to be the first reference work one would consult to learn about the chemistry of the solar system.

Reprinted individual  
*Page 7/89*

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volume from the  
acclaimed Treatise on  
Geochemistry (10  
Volume Set, ISBN  
0-08-043751-6,  
published in 2003)

An interdisciplinary  
approach to solar  
physics, as eighty-nine  
contributors trace the  
evolution of the Sun  
and provide a review  
of our current



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understanding of both  
its structure and its  
role in the origin and  
evolution of the solar  
system.

Iron and Steel in  
Ancient Times  
NASA Technical  
Translation  
Accretion of  
Extraterrestrial Matter  
Throughout Earth's  
History

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Meteorite Value  
How Much Are  
Using Geochemical  
Data

The History of  
Meteoritics and Key  
Meteorite Collections  
Physics and  
Chemistry of the Solar  
System

**A comprehensive  
summary of the  
mineralogy of all  
meteorite groups and  
the origin of their**

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minerals.  
Meteorites Worth

**The US Antarctic  
meteorite collection  
exists due to a  
cooperative program  
involving the  
National Science  
Foundation (NSF),  
the National  
Aeronautics and  
Space  
Administration  
(NASA), and the**

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How Much Are  
Smithsonian  
Meteorites Worth  
Institution. Since

**1976, meteorites have been collected by a NSF-funded field team, shipped for curation, characterization, distribution, and storage at NASA, and classified and stored for long term at the Smithsonian.**

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**It is the largest collection in the world with many significant samples including lunar, martian, many interesting chondrites and achondrites, and even several unusual one-of-a-kind meteorites from as yet unidentified**

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**parent bodies. Many Antarctic meteorites have helped to define new meteorite groups. No previous formal publication has covered the entire collection, and an overall summary of its impact and significant samples has been lacking. In addition, available**

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statistics for the  
Meteorites Worth

collection are out of date and need to be updated for the use of the community. 35 seasons of U.S.

**Antarctic Meteorites (1976-2011): A Pictorial Guide to the Collection is the first comprehensive volume that portrays the most updated key**

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**significant meteoritic  
samples from  
Antarctica. 35  
seasons of U.S.  
Antarctic Meteorites  
presents a broad  
overview of the  
program and  
collection nearly four  
decades after its  
beginnings. The  
collection has been a  
consistent and**



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**reliable source of  
astromaterials for a  
large, diverse, and  
active scientific  
community. Volume  
highlights include:  
Overview of the  
history, field  
practices, curation  
approaches Special  
focus on specific  
meteorite types and  
the impact of the**

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How Much Are  
collection on  
Meteorites Worth  
understanding these  
groups (primitive  
chondrites,  
differentiated  
meteorites, lunar and  
martian meteorites)  
Role of Antarctic  
meteorites in  
influencing the  
determination of  
space and terrestrial  
exposure ages for

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How Much Are  
**meteorites Statistical  
summary of the  
collection by year,  
region, meteorite  
type, as well as a  
comparison to  
modern falls and hot  
desert finds The  
central portion of the  
book features 80  
color plates each of  
which highlights  
more influential and**

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**interesting samples  
from the collection.**

**35 seasons of U.S.  
Antarctic Meteorites  
would be of special  
interest to a  
multidisciplinary  
audience in  
meteoritics,  
including advanced  
graduate students  
and geoscientists  
specializing in**

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**mineralogy,  
petrology,  
geochemistry,  
astronomy, near-  
earth object science,  
astrophysics, and  
astrobiology.**

**Over 150 crater-  
producing events  
have been identified,  
and this book  
describes all 139 sites  
worldwide at which**

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**evidence of the  
impacts can be seen.**

**They range in age  
from recent craters  
formed this century  
to highly eroded  
billion-year-old  
craters. Some are  
spectacular to visit,  
such as the  
Barringer Crater in  
Arizona, the ring-  
shaped mountains of**

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**Gosses Bluff, Australia, and the huge crater at Ries in Germany. The author has visited many of the sites and his photographs enrich this thorough survey. For each site there is a summary table giving location, size, age and present condition. Maps are**

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**included where  
necessary. Meteorite  
craters are  
fascinating to visit,  
so the descriptions  
include guidance  
about access and  
suggested itineraries  
for the large  
structures.  
Asteroids,  
Meteorites, and  
Comets**



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Izvestiya Akademii  
Nauk SSSR. Seriya  
Geologicheskaya  
Rocks from Space  
Encyclopedia of the  
Solar System  
Field Guide to  
Meteors and  
Meteorites  
Proceedings,  
American  
Philosophical Society  
(vol. 52, 1913)

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**Publisher  
Description**

**The Late Eocene  
and the Eocene-  
Oligocene (E-O)  
transition mark  
the most  
profound  
oceanographic  
and climatic  
changes of the  
past 50 million  
years of Earth**

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**history, with  
cooling beginning  
in the middle  
Eocene and  
culminating in  
the major earliest  
Oligocene Oi-1  
isotopic event.  
The Late Eocene  
is characterized  
by an accelerated  
global cooling,  
with a sharp**

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**temperature drop  
near the E-O  
boundary, and  
significant  
stepwise floral  
and faunal  
turnovers. These  
global climate  
changes are  
commonly  
attributed to the  
expansion of the  
Antarctic ice cap**

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**following its  
gradual isolation  
from other  
continental  
masses. However,  
multiple  
extraterrestrial  
bolide impacts,  
possibly related  
to a comet  
shower that  
lasted more than  
2 million years,**

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**may have played an important role in deteriorating the global climate at that time. This book provides an up-to-date review of what happened on Earth at the end of the Eocene Epoch.**

**This 199 book reviews**

*Page 30/89*

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**discoveries in  
astronomy,  
paleontology,  
biology and  
chemistry to help  
us to understand  
the likely origin  
of life on Earth.  
Proceedings of  
the Sixth Trieste  
Conference on  
Chemical  
Evolution Trieste,**

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**Italy 18-22  
September, 2000  
Meteorite  
Research**

**Lunar Science  
Scientific and  
Technical  
Aerospace  
Reports  
Meteorites and  
the Early Solar  
System II**



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This Special  
Publication has 24  
papers with an  
international  
authorship, and is  
prefaced by an  
introductory  
overview which  
presents highlights  
in the field. The first  
section covers the  
acceptance by  
science of the reality

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of the falls of rock and metal from the sky, an account that takes the reader from BCE (before common era) to the nineteenth century. The second section details some of the world's most important collections in museums - their origins and

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development. The Smithsonian chapter also covers the astonishingly numerous finds in the cold desert of Antarctica by American search parties. There are also contributions covering the finds by Japanese parties in the Yamato

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mountains and the equally remarkable discoveries in the hot deserts of Australia, North Africa, Oman and the USA. The other seven chapters take the reader through the revolution in scientific research on meteoritics in the later part of the

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twentieth century, including terrestrial impact cratering and extraordinary showers of glass from the sky; tektites, now known to be Earth-impact-sourced. Finally, the short epilogue looks to the future. The History of Meteoritics and Key

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Collections should appeal to historians of science, meteoriticists, geologists, astronomers, curators and the general reader with an interest in science.

What is unique about Richard

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Norton's book is that it is both a field guide to observing meteors, and also a field guide to locating, preparing and analysing meteorites. In addition to giving the reader information about observing techniques for

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meteors, this book also provides a fully detailed account of the types of meteorites, how and where to find them, how to prepare and analyse them. The book provides everything the amateur astronomer (or geologist!) needs to know about



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meteors and  
meteorites. It is thus  
the only complete  
book on the subject  
available at present.  
Long before Galileo  
published his  
discoveries about  
Jupiter, lunar  
craters, and the  
Milky Way in the  
Starry Messenger in  
1610, people were

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fascinated with the planets and stars around them. That interest continues today, and scientists are making new discoveries at an astounding rate. Ancient lake beds on Mars, robotic spacecraft missions, and new definitions of planets now

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dominate the news. How can you take it all in? Start with the new Encyclopedia of the Solar System, Second Edition.

This self-contained reference follows the trail blazed by the bestselling first edition. It provides a framework for understanding the

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origin and evolution of the solar system, historical discoveries, and details about planetary bodies and how they interact—and has jumped light years ahead in terms of new information and visual impact. Offering more than

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50% new material, the Encyclopedia includes the latest explorations and observations, hundreds of new color digital images and illustrations, and more than 1,000 pages. It stands alone as the definitive work in this field, and will

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serve as a modern messenger of scientific discovery and provide a look into the future of our solar system. · Forty-seven chapters from 75+ eminent authors review fundamental topics as well as new models, theories, and discussions · Each

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entry is detailed and scientifically rigorous, yet accessible to undergraduate students and amateur astronomers · More than 700 full-color digital images and diagrams from current space missions and

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observatories  
amplify the chapters  
· Thematic chapters  
provide up-to-date  
coverage, including  
a discussion on the  
new International  
Astronomical Union  
(IAU) vote on the  
definition of a planet  
· Information is  
easily accessible  
with numerous



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cross-references  
and a full glossary  
and index

Cosmic Debris

Atmospheric

Turbulence

A Pictorial Guide To  
The Collection  
(thesis)

The Sun in Time

The Molecular

Origins of Life

***Proceedings of the***

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***Sixth Trieste  
Conference on  
Chemical  
Evolution, Trieste,  
Italy, 18-22  
September 2000  
The Symposium  
'Meteorite  
Research' was  
conceived  
originally at the  
second meeting of  
the UNESCO***

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***Working Group on  
Meteorites, held in  
Paris October  
18-20, 1965, under  
the chairmanship  
of Professor J.  
Orce!' In addition  
to the Chairman  
the following were  
present: Dr. G.  
Harbottle, Dr. M. H.  
Hey, Dr. B. H.  
Mason, Dr. P. M.***

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**Millman, Professor  
K. I. Sztr6kay. Dr.  
E. M. Fournier  
d'Albe represented  
the UNESCO  
Secretariat.  
Recommendation  
No.4 from the  
minutes of this  
meeting reads as  
follows: "The  
Working Group, in  
view of the need to**

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***strengthen international co-operation in meteorite research, asks that the International Atomic Energy Agency be requested to consider the possibility of organizing, in 1968, an***

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***interdisciplinary  
conference on  
meteorites, in  
collaboration with  
UNESCO and the  
appropriate  
international  
scientific  
organizations."  
After approval in  
principle of this  
recommendation  
had been secured***

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***from various international agencies and unions, plans for the symposium were consolidated at the third and final meeting of the Working Group, held in Paris October 12-14, 1966, the members in***

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***attendance being  
the same as for the  
second meeting.***

***They range in size  
from microscopic  
particles to  
masses of many  
tons. The geologic  
diversity of  
asteroids and  
other rocky bodies  
of the solar system  
are displayed in***



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***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***

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***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***

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***valuable as a  
textbook for  
graduate  
education in  
planetary science  
and as a reference  
for meteoritists  
and researchers in  
allied fields  
worldwide.***

***Revised Abstracts  
of Papers***

***Presented at the ...***

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***Lunar Science  
Conference  
Proceedings of a  
Symposium on  
Meteorite  
Research Held in  
Vienna, Austria,  
7-13 August 1968  
Meteorites,  
Comets, and  
Planets  
Meteorites in  
Georgia***

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***Fireballs, Falls and  
Finds  
Meteorites in  
History***

Every year Earth is bombarded with about 40,000 tons of extraterrestrial material. This includes microscopic

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cosmic dust particles shed by comets and asteroids in outer space, meteorites, as well as large comets and asteroids that have led to catastrophic events in the geologic past.

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Originally considered only a curiosity, extraterrestrial matter found on Earth provides the only samples we have from comets, asteroids and other planets. Only recently mankind has

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started to actively  
collect  
extraterrestrial  
matter in space  
(Apollo program,  
Stardust mission)  
rather than to  
wait for its  
delivery to Earth.  
Still, most of our  
knowledge of the  
origin and



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evolution of our solar system is based on careful studies of meteorites, cosmic dust, and traces of large impact events in the geologic record such as the mass extinction that terminated

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the Cretaceous  
Meteorites Worth

Period and led to  
the extinction of  
the dinosaurs.

This book  
summarizes our  
current  
knowledge of the  
properties, origin,  
orbital evolution  
and accretion  
mechanism of

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extraterrestrial matter accreted on Earth and sheds light on accretion processes and fluxes in the geologic past. The chapters in the first part of the book are arranged in order to follow

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extraterrestrial matter from its origin in space, its orbital evolution on its way to Earth, its interaction with the Earth magnetosphere and atmosphere to its more or less violent collision

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with the Earth's surface. In the second part of the book several chapters deal with the present-day flux of cosmic dust and meteorites to Earth. Finally, several chapters deal with the

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reconstruction of  
the accretion  
history of  
extraterrestrial  
matter on Earth,  
starting with the  
most recent  
geologic past and  
ending with the  
very early, violent  
accretion period  
shortly after the

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formation of  
Earth, Moon and  
other solid  
planets in our  
solar system.

Cosmic  
Debris Meteorites  
in History Univ of  
California  
Press Proceedings,  
American  
Philosophical

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Meteorite Value  
How Much Are  
Society (vol. 52,  
1913) American  
Philosophical  
Society Meteor  
Orbits and  
Dust The  
Proceedings of a  
Symposium Large  
Meteorite Impacts  
and Planetary  
Evolution  
II Geological



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How Much Are  
Society of American  
Meteorites Worth  
a Encyclopedia of  
the Solar  
System Elsevier  
Meteorites are the  
remnants of  
meteors from  
outer space that  
have survived the  
corridor of fire  
through Earth's  
atmosphere and

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landed on our  
Meteorites Worth  
planet. Rare, and  
bearing secrets  
about the  
formation of our  
Universe, these  
'treasures from  
space' have  
fascinated people  
ever since they  
were first  
identified in the

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late 18th century  
as extraterrestrial  
arrivals. This jam-  
packed book by  
enthusiast and  
collector Ronnie  
McKenzie  
introduces the  
topic in  
straightforward  
language and is  
richly illustrated

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with some 200 photographs and diagrams. It discusses how to identify meteorites, where they come from and where they have landed on Earth, the many different types, and how to set

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about collecting them. It also dispels some of the myths about these stones, and presents some infamous meteorite scams. A handy basic guide for those new to the topic, and for anyone

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How Much Are  
interested in  
Meteorites Worth  
entering the field  
of meteorite  
collecting.  
The Tungus  
Event, Or, The  
Great Siberian  
Meteorite  
Noble Gas  
Geochemistry  
The Late Eocene  
Earth

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How Much Are  
Assembling Pieces  
of the Puzzle  
Meteorites  
Cosmic-ray-  
induced  
Radioactivities in  
Meteorites and  
Tektites  
**Asteroids,  
Comets, and  
Meteorites  
provides**

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**students,  
researchers,  
and general  
readers with  
the most up-to-  
date  
information on  
this  
fascinating  
field. From the  
days of the  
dinosaurs to**



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**our modern  
environment,  
this book  
explores all  
aspects of  
these cosmic  
invaders.  
New Scientist  
magazine was  
launched in  
1956 "for all  
those men and**

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**women who  
are interested  
in scientific  
discovery, and  
in its  
industrial,  
commercial  
and social  
consequences"  
. The brand's  
mission is no  
different today**

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- for its  
Meteorites Worth  
consumers,  
New Scientist  
reports,  
explores and  
interprets the  
results of  
human  
endeavour set  
in the context  
of society and  
culture.

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**Explores the  
world of  
meteorites,  
asteroids, and  
comets from  
the  
perspectives of  
science,  
folklore, and  
superstition  
Treatise on  
Geochemistry,**

*Page 84/89*

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**Second Edition  
Meteorites and  
Meteorite  
Hunters  
(organic  
Compounds,  
Diamonds,  
Graphite)  
Large  
Meteorite  
Impacts and  
Planetary**

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**Evolution II  
First Steps in  
the Origin of  
Life in the  
Universe  
35 Seasons of  
U.S. Antarctic  
Meteorites  
(1976-2010)**

*Full text e-book  
available as part  
of the Elsevier*

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**ScienceDirect  
Earth and  
Planetary  
Sciences subject  
collection.**

**How best to  
interpret and  
apply  
geochemical data  
to understand  
geological  
processes, for**

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**graduate  
students,  
researchers, and  
professionals.  
Exploring  
meteorite  
mysteries a  
teacher's guide  
with activities for  
earth and space  
sciences.**

**Meteor Orbits**

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How Much Are  
***and Dust***  
***Meteorites Worth***  
***a southern***  
***African***  
***perspective***  
***Reprints. Series I.***  
***Hothouse,***  
***Icehouse, and***  
***Impacts***  
***To Understand***  
***Geological***  
***Processes***