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Asteroids Comets
And Meteorites
The Solar System

Asteroids Comets And Meteorites The Solar System

Describes the role that collisions with meteors, comets, and asteroids

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And Meteorites

The Solar System

have played in the history of Earth and other planets in the solar system and examines what is being done to protect Earth from future collisions. Describes what meteors and micrometeors are, and describes the different types of meteorites, including lunar and martian meteorites, and how

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meteorites form craters.

The Solar System
Impact phenomena play

an essential role in the

formation of planets and

great influence during

their evolution. The first

part of this book

describes the dynamics

that propels asteroids in

our solar system; the

second part is devoted

to impact phenomena;

the third inspects

terrestrial impacts of

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asteroids and the hazards due to space debris orbiting our planet. The book addresses scientists working in astronomy, extraterrestrial physics and geophysics. But it should also be of great interest to a learned public that wants to know about the most recent developments in this fast-moving field of

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The Solar System
*theoretical and
observational research.*

When many young readers think of space, they just think of the planets, and perhaps the sun and moon. But there's much more to space than just those things. Asteroids, meteors, and comets are just a few of the other things that exist in what we know as space.

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Readers of this delightful book will learn all about these amazing, often rocky or icy, objects. Fact boxes emphasizing key numbers are included throughout the book, while colorful photographs and diagrams also help visual learners understand many of these figures.

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And Meteorites

The Geology of the
The Solar System

*Asteroids, Comets, and
Meteoroids*

*Comets, Meteors, and
Asteroids*

*The Physics and
Astronomy of Meteors,
Comets and Meteorites
Comets, Asteroids, and
Meteoroids*

**Around 65
million years**

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The Solar System

**ago, something
huge may have
slammed into
the earth. At
about the same
time the
dinosaurs
disappeared.
Did their
disappearance
have something
to do with a**

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The Solar System

**comet or a
meteor? Book
jacket.**

**Find out about
comets and
asteroids and
where they
come from.**

**Discover the
difference
between a
meteor and a**

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The Solar System

**meteorite, and
learn why
shooting stars
are not really
stars at all. Part
of the Our Solar
System series of
books that
explore the
exciting topic of
space and are
specially written**

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**for younger
readers. With
stunning
photographs
and explanatory
artwork, the
books are the
perfect
introduction to
our solar
system. Other
titles in the**

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The Solar System

**series: Earth;
The Moon; The
Inner Planets;
The Outer
Planets and The
Sun
Leading
specialists in
various
disciplines were
first invited to a
multidisciplinary**

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**workshop
funded by ICSU
on the topic to
gain a better
appreciation
and perspective
on the subject
of
comet/asteroid
impacts as
viewed by
different**

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disciplines. This volume provides a necessary link between various disciplines and comet/asteroid impacts.

An account of the present knowledge about meteorites, and

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The Solar System

**a discussion of
what they tell
us about the
evolution of the
solar system
and life on
Earth. The book
is aimed at a
wide readership
- including
secondary
students,**

Page 15/82

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The Solar System

**beginning
geologists and
general readers.**

**Mysteries of
Meteors,**

**Asteroids and
Comets**

An

**Interdisciplinary
Approach**

Asteroids,

Comets, and

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And Meteorites

The Solar System

Meteors (IAU S229)

Meteors and

Comets

The Science of

Comets,

Meteors, and

Asteroids

Asteroids,

Comets, and

Meteorites

provides

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The Solar System

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

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And Meteorites

to our modern
The Solar System
environment,

this book

explores all

aspects of

these cosmic

invaders.

How hot is the

sun? How many

stars shine in

the sky? What

would happen

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The Solar System

if you fell
into a black
hole? Your
mission is to
answer these
questions and
more!

Exploring Our
Universe
guides you on
exciting
adventures

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through the
The Solar System
wonders of

deep space.

Investigate

fiery comets,

faraway

planets, and

mysterious

black holes.

Meet

astronomers

and astronauts

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The Solar System

who changed
the history of
space

exploration.

And study the
stellar

technology
that helped
them do so.

As end-of-the-
world

scenarios go,

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The Solar System

an apocalyptic collision with an asteroid or comet is the new kid on the block, gaining respectability only in the last decade of the 20th century with the

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realisation
that the
dinosaurs had
been wiped out
by just such
an impact. Now
the science
community is
making up for
lost time,
with worldwide
efforts to

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track the
thousands of
potentially
hazardous near-
Earth objects,
and plans for
high-tech
hardware that
could deflect
an incoming
object from a
collision

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course - a
procedure

depicted, with
little regard
for scientific
accuracy, in
several
Hollywood
movies.

Astrophysicist
and science
writer Andrew

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May

disentangles
fact from
fiction in
this fast-
moving and
entertaining
account,
covering the
nature and
history of
comets and

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And Meteorites

asteroids, the
The Solar System
reason why

some orbits

are more

hazardous than

others, the

devastating

local and

global effects

that an impact

event would

produce, and -

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And Meteorites

more

The Solar System

optimistically

- the way

future space

missions could

avert a

catastrophe.

Discusses

comets,

asteroids, and

meteors,

including what

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And Meteorites

The Solar System

they are made
of, where they
come from, and
why they need
to be studied.

Impacts on

Earth

Physical,

Chemical, and

Spectroscopic

Observations

Paving the Way

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to Exploration

The Solar System

Destination

Asteroids,

Comets, and

Meteors

Could an

Asteroid Hit

the Earth?

Asteroids,

Comets,

Meteors 1993

"Describes the small

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The Solar System

solar system bodies
asteroids, comets, and
meteorites"--Provided
by publisher.

Combines myth and
history with current
scientific research to
explore the threat and
effect of impact, the
physical composition of
comets and meteorites,
and the stories of
famous comets

Describes in simple

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And Meteorites

The Solar System

terms the meteors, comets, and asteroids that are part of our solar system and discusses the various theories concerning their origin and their effect on life on Earth.

Briefly discusses the solar system, including comets, asteroids, meteoroids, and meteors.

Comets and Asteroids

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And Meteorites
The Solar System
Asteroids, Meteorites,
and Comets

Meteors and Meteorites
The physics and
astronomy of meteors,
comets and meteorites
'A promising debut.'
New Scientist Icy,
rocky, sometimes
dusty, always
mysterious – comets
and asteroids are

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And Meteorites

among the Solar

System's very oldest

inhabitants, formed

within a swirling

cloud of gas and

dust in the area of

space that

eventually hosted

the Sun and its

planets. Locked

within each of these

extra-terrestrial

objects is the

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And Meteorites

The Solar System

4.6-billion-year
wisdom of Solar

System events, and
by studying them at
close quarters using
spacecraft we can
coerce them into
revealing their
closely-guarded
secrets. This offers
us the chance to
answer some
fundamental

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questions about our planet and its inhabitants.

Exploring comets and asteroids also allows us to shape the story of Earth's future, enabling us to protect our precious planet from the threat of a catastrophic impact from space, and

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The Solar System

maybe to even
recover valuable
raw materials from
them. This cosmic
bounty could be as
useful in space as it
is on Earth,
providing the
necessary fuel and
supplies for humans
as they voyage into
deep space to
explore more distant

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The Solar System

locations within the
Solar System.

Catching Stardust
tells the story of
these enigmatic
celestial objects,
revealing how
scientists are using
them to help
understand a crucial
time in our history –
the birth of the Solar
System, and

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And Meteorites

The Solar System

everything
contained within it.

Describes comets,
asteroids, and
meteors, how they
are studied, and
their effect on Earth.

Discusses the
origins, formations,
and movements of
these celestial
bodies

Primitive Meteorites

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And Meteorites

and Asteroids:

The Solar System

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

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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
system. The book
offers an
interdisciplinary

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perspective relevant
to many fields of
planetary science,
as well as
cosmochemistry,
planetary
astronomy,
astrobiology,
geology and space
engineering.

Including
contributions from
planetary and

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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

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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
Origins and
Observations
The Key to Our

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Existence

Catching Stardust

Comets, Asteroids,

and Meteorites

Understanding the

Threat to Earth from

Asteroids and

Comets

THE MEETING The

IAU Symposium 160

ASTEROIDS COMETS

METEORS 1999 has

been held at Villa

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Carlotta in Belgirate, on the shore of Lago Maggiore (Italy), from June 14 to June 18, 1993. It has been organized by the Astronomical Observatory of Torino and by the Lunar and Planetary Institute of Houston. It has been a very large meeting, with 323 registered participants from 38 countries. The scientific

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The Solar System

program included 29 invited reviews, 106 oral communications, and 215 posters. The subjects covered included all the aspects of the studies of the minor bodies of the solar system, including asteroids, comets, meteors, meteorites, interplanetary dust, with special focus on the interrelationships between these. The

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The Solar System

meeting was structured as follows. 5 morning

plenary sessions have been devoted to invited reviews on: (1) search programs (2) populations of small bodies (3) dynamics (4) physical observations and modelling (5) origin and evolution. Two

afternoon plenary sessions have been devoted to space

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The Solar System

missions to small bodies
and to interrelationships
between the different
populations. The
afternoon parallel
sessions have been
devoted to: dynamics of
comets; Toutatis, Ida,
Gaspard; physical
processes in cometary
comae and tails;
meteorites; the
cosmogonic message
from cometary nuclei;

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physics of asteroids; the interplanetary dust complex; comet nuclei; meteors; composition and material properties of comets; dynamics of asteroids.

Introduces asteroids, comets and meteors, including their origin, composition, orbits, and effects on Earth and other bodies in the solar system.

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The Solar System

Discusses the debris that can be found in the solar system, including how they are formed, what they are made of, and how they were discovered.

This fascinating text is a perfect companion for any student interested in a more authoritative source on the subject of asteroids, meteors, meteorites, and comets.

Read PDF Asteroids Comets And Meteorites The Solar System

Readers will learn, following the Next Generation Science Standards in the area of the Earth and the solar system, the scientific differences between these four celestial objects. They'll also study their features, compositions, characteristics, classifications, and history of their observation. This book is

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The Solar System

perfect for the student doing a report on the subject or one who is curious about the space sciences and would like detailed information instead of a general overview.

Asteroids, Comets and
Meteors

Asteroids, Comets, and
Meteors

Asteroids, Comets,
Meteors, and More

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And Meteorites

The Solar System

Primitive Meteorites and
Asteroids

Killer Rocks from Outer
Space

***The earth is
bombarded
both day and
night by
meteoroids and
meteorites.
These wayward
bodies--small
fragments***

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And Meteorites

The Solar System

***derived from
aging comets
and the
collisions
between
asteroids--are
observed in the
Earth's upper
atmosphere as
meteors and
brilliant
fireballs.***

Written with

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The Solar System

the amateur astronomer in mind, this book includes step-by-step guidance on visual observation and analyzing data, practical projects that demonstrate how the observer can

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gather scientifically useful data, and instructions on how to identify and photograph meteor trails.

"Meteorites, and their fall to Earth, have the potential to inform studies of the asteroid

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***impact hazard
and of impact
mitigation. An
asteroid is a
rocky object in
space that's
smaller than a
planet they're
sometimes
called minor
planets or
planetoids,
according to***

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NASA. Other sources refer to them loosely as "space debris," or leftover fragments from the formation of the solar system. There are millions of asteroids orbiting the sun, some

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750,000 of which are found in the asteroid belt, a vast ring of asteroids located between the orbits of Mars and Jupiter.

Asteroids can be as large as hundreds of kilometers

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wide: The asteroid Ceres, sometimes referred to as a dwarf planet, is 940 km (584 miles) wide.

Meteorites are usually categorized as iron or stony.

As the name implies, iron

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***meteorites are
composed of
about 90
percent iron;
stony
meteorites are
made up of
oxygen, iron,
silicon,
magnesium and
other elements.
The collisions
of these objects***

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with Earth are basically random events, but still we have some idea how often they happen.

Localized destruction happens every couple of hundreds of years and is

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***somewhat
equivalent to a
hydrogen bomb.
Last such event
happened in
1908 near
Tunguska river
in Siberia. The
number of
casualties
depends on the
place of impact
(the objects of***

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***this size usually
explode in the
air before
reaching the
ground, just
like an atom
bomb). If a city
is struck,
casualties could
be close to a
million, while
Tunguska event
had zero to one***

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***reported
casualty
(reports vary).
An impact in
the ocean would
create a
tsunami and
definitely
produce
significant
destruction on
the nearby
seaside. These***

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The Solar System

***events usually
do not leave a
crater and
typically involve
a 100-meter
asteroid or
comet. This
book presents
the celestial
phenomena of
asteroids,
meteoroids and
meteorites, and***

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comets. It illustrates the role that collisions with meteors, comets, and asteroids have played in the history of Earth and other planets in the solar system and examines

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The Solar System

***what is being
done to protect
Earth from
future
collisions. "***

***Asteroids,
Comets, and Me
teoritesCosmic
Invaders of the
EarthInfobase
Publishing
Examines the
physical***

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***characteristics
and conditions
of comets,
asteroids, and
meteorites,
describing their
position and
movements in
relation to the
sun and planets
and surveying
humanity's
attempts to***

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The Solar System

***penetrate their
mysteries.***

Space Objects

Asteroids,

Meteors, and

Comets

Asteroids,

Meteors,

Meteorites, and

Comets

Comets and

Meteors

Cosmic Impact

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*Proceedings of IAU
Symposium 229 on
minor bodies of the
solar system, for
researchers and
graduate students of
planetary sciences.
Discusses the
characteristics of
comets, asteroids,
and meteoroids and
describes what
happens when one of
these celestial*

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objects passes close to or collides with the Earth.

The impact event that led to the extinction of the dinosaurs was not an isolated occurrence, for, as the foreword writer reminds us, a near-miss with an asteroid occurred in 1996. Erickson, an independent

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Colorado-based geologist, provides students beginning to study the Earth sciences and general readers with a lucid introduction to the bearers of such planetary impacts and their ongoing role in shaping our solar system. The book features numerous b&w

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illustrations, including recent photos taken from spacecraft, and a glossary with a pronunciation guide. Explores how comets, meteors, and asteroids move through our solar system, and explains the ingredients that make a comet's tail and other topics

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*Asteroids, Comets,
and Meteorites*

*Cosmic Invaders of
the Earth*

*Comets, Asteroids
and Meteors*

*Comets, Asteroids
and Meteorites*

Comet/Asteroid

*Impacts and Human
Society*

**Introduces
comets and**

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**meteors,
describing what
they are, how
they move
through the
solar system,
and how they
are studied.**

**Looks at the
properties and
characteristics
of such objects**

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**found in Outer
Space as
asteroids,
comets, and
meteors.**

**An introduction
to the celestial
phenomena of
asteroids,
meteoroids and
meteorites, and
comets.**

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**Comets,
Asteroids, and
Meteors**

**Comets,
Asteroids and
the Birth of the
Solar System**

**Asteroids and
Meteorites**

Meteorites

**Proceedings of
the 160th**

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**Symposium of
the**

**International
Astronomical
Union, Held in
Belgirate, Italy,
June 14-18,
1993**