

---

# Asteroids Comets And Meteorites The Solar System

---

Catching Stardust

Meteors and Comets

Comet/Asteroid Impacts and Human Society

Asteroids, Meteors, Meteorites, and Comets

Comets, Meteors, and Asteroids

Cosmic Invaders of the Earth

Comets, Asteroids, and Meteors

Asteroids, Comets, and Meteorites

Meteors and Meteorites

Killer Rocks from Outer Space

Falling Stars

Asteroids, Comets, Meteors 1993

Asteroids, Meteorites, and Comets

Asteroids, Comets, and Meteors

Meteors and Meteorites

Near-Earth-Object Surveys and Hazard Mitigation Strategies

Comets, Asteroids and Meteorites

Asteroids, Comets, Meteors, and More

Asteroids, Meteors, and Comets

Comets, Asteroids, and Meteoroids

Destination Asteroids, Comets, and Meteors

The Geology of the Terrestrial Planets

Understanding the Threat to Earth from Asteroids and Comets

Comets, Asteroids, and Meteorites

Primitive Meteorites and Asteroids

The Physics and Astronomy of Meteors, Comets and Meteorites

Asteroids, Comets, and Meteors

A Guide to Meteors & Meteorites

Comets, Asteroids and Meteors

Asteroids, Comets, and Meteorites

Comets, Asteroids, and Meteorites

Physical, Chemical, and Spectroscopic Observations Paving the Way to Exploration

Comets, Asteroids, and Meteorites

Exploration of Near Earth Objects

Comets, Asteroids and the Birth of the Solar System

Could an Asteroid Hit the Earth?

Meteor Showers and Their Parent Comets

Asteroids, Comets, and Meteors

Asteroids, Comets, and Meteors (IAU S229)

## EWING STONE

### Catching Stardust

Capstone

'A promising debut.' New Scientist Icy, rocky, sometimes dusty, always mysterious - comets and asteroids are 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 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 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 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 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 everything contained within it.

Infobase Publishing  
Asteroids, comets, and other space rocks rush around the solar system. Learn about these fascinating flying masses and their place in the solar system  
*Meteors and Comets*  
Springer Science & Business Media  
Primitive Meteorites and Asteroids: 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 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

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

Including contributions from planetary and 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 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 chondritic meteorites and the bearings on successful exploration of their parent asteroids  
Includes chapters on geotechnical properties and resource extraction  
Comet/Asteroid Impacts and Human Society  
Heinemann/Raintree  
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.

*Asteroids, Meteors, Meteorites, and Comets*  
Asteroids, Comets, and Meteors  
Asteroids, comets, and other space rocks rush around the solar system. Learn about these fascinating flying masses and their place in the solar system  
Asteroids, Comets, and Meteoroids  
Briefly discusses the solar system, including comets, asteroids, meteoroids, and meteors.

**Comets, Meteors, and Asteroids** Springer  
Science & Business Media  
Asteroids, Comets, and Meteors

*Cosmic Invaders of the Earth* Icon Books  
Introduces asteroids, comets and meteors, including their origin, composition, orbits, and effects on Earth and other bodies in the solar system.

Comets, Asteroids, and Meteors Crowood Press (UK)

Describes 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 what is being done to protect Earth from future collisions.

**Asteroids, Comets, and Meteorites** Marshall Cavendish Corporation  
Comets, Meteors and Asteroids explores the

origins and life story of these cosmic phenomena which add elements of drama to all planets; in particular, to Earth and its life forms. Comets have always been objects of mystery and terror. This fear, once dismissed as superstition, is sometimes justified: comets really can bring catastrophes in their wake. Research shows that comets are close relatives of both the space dust which forms meteors or shooting stars, and of the larger, inert rocks - the asteroids - which circle the Sun in their millions. All of these objects, left over from the formation of the Solar System, have threatened life with massive impacts and 'nuclear winters'. However, they have also been part of the process by which the Solar System renews itself - we owe our very existence to the impact that destroyed the dinosaurs 65 million years ago. Discovering the truth about this space debris - whose numbers increase by the thousand every year - has revolutionized our view of the Solar System. We now know that even the most distant planet is part of our Sun's system. This stretches out into icy interstellar wastes, from where these tiny objects occasionally

fall sunwards to delight us with displays of cosmic brilliance, and threaten us with destruction. The threat of collision with Earth has placed comets and asteroids at the top of the agenda for astronomers, the public, and increasingly for governments. Comets, Meteors and Asteroids gives a fascinating and insightful exploration of these space wanderers and the cosmos. For a more comprehensive look at the solar system John Gribbin's *SPACE - OUR FINAL FRONTIER* is also available as part of this series.

**Meteors and Meteorites** Twenty-First Century Books

An introduction to the celestial phenomena of asteroids, meteoroids and meteorites, and comets. Killer Rocks from Outer Space Britannica Educational Publishing  
Describes in simple 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.

Falling Stars The Rosen Publishing Group, Inc  
Describes the characteristics of comets, asteroids, and meteorites, and suggests a variety of

simple experiments.

Asteroids, Comets,

Meteors 1993 National Academies Press

Comets and asteroids are in some sense the fossils of the solar system. They have avoided most of the drastic physical processing that shaped the planets and thus represent more closely the properties of the primordial solar nebula. What processing has taken place is itself of interest in decoding the history of our solar neighborhood. Near-Earth objects are also of interest because one or more large ones have been blamed for the rare but devastating events that caused mass extinctions of species on our planet, as attested by recent excitement over the impending passage of asteroid 1997 XF11. The comets and asteroids whose orbits bring them close to Earth are clearly the most accessible to detailed investigation, both from the ground and from spacecraft. When nature kindly delivers the occasional asteroid to the surface of Earth as a meteorite, we can scrutinize it closely in the laboratory; a great deal of information about primordial chemical composition and primitive

processes has been gleaned from such objects. This report reviews the current state of research on near-Earth objects and considers future directions.

Attention is paid to the important interplay between ground-based investigations and spaceborne observation or sample collection and return. This is particularly timely since one U.S. spacecraft is already on its way to rendezvous with a near-Earth object, and two others plus a Japanese mission are being readied for launch. In addition to scientific issues, the report considers technologies that would enable further advances in capability and points out the possibilities for including near-Earth objects in any future expansion of human exploration beyond low Earth orbit.

**Asteroids, Meteorites, and Comets** Time Life Education

Chronicles the formation of the solar system, particularly how asteroids, comets, and meteors were formed, and relates how astronomers learn about the existence and characteristics of these bodies.

**Asteroids, Comets, and Meteors** Capstone

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. 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 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.

**Meteors and**

**Meteorites** Twenty-First Century Books

Month-by-month information on meteor showers and how to make the most of watching them. Advice on starting and building a meteorite collection plus the scientific explanation of what meteors are and where they come from. Includes new information about recent space exploration and studies of meteors.

*Near-Earth-Object Surveys*

*and Hazard Mitigation Strategies* The Rosen Publishing Group, Inc  
Examines the physical 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 penetrate their mysteries.  
Comets, Asteroids and Meteorites Cambridge University Press  
Discusses the origins, formations, and movements of these

celestial bodies  
Asteroids, Comets, Meteors, and More Capstone Classroom  
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.  
Asteroids, Meteors, and Comets Infobase Publishing  
The earth is bombarded both day and night by meteoroids and meteorites. These wayward bodies--small

fragments derived from aging comets and the collisions between asteroids--are observed in the Earth's upper atmosphere as meteors and brilliant fireballs. Written with 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 gather scientifically useful data, and instructions on how to identify and photograph meteor trails.

Related with Asteroids Comets And Meteorites The Solar System:

© [Asteroids Comets And Meteorites The Solar System Seattle Pollen Count History](#)

© [Asteroids Comets And Meteorites The Solar System Second Grade Science Worksheets](#)

© [Asteroids Comets And Meteorites The Solar System Secret Society On Tubi](#)