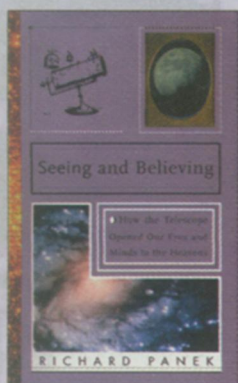
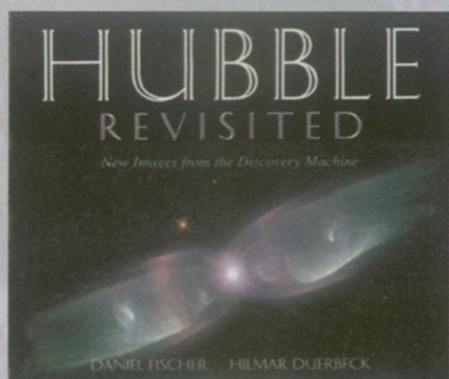
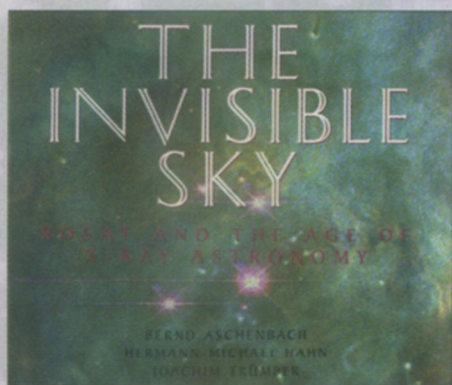


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**Since** ROSAT, the ROentgen SATellite launched in June of 1990, it has revealed an entirely new aspect of the night sky—that of objects emitting X-rays rather than the rays of light visible to the human eye. ROSAT has discovered over 120,000 X-ray sources, allowing us to observe elements of the cosmos—stellar explosions, galactic collisions, extremely compact pulsars, black holes, and quasars that shine 10,000 times more strongly than the brightest galaxy—in ways that were previously impossible.

In addition to its many spectacular findings, ROSAT also made the headlines when it detected X-rays coming from a comet for the first time. Discovered by a team of U.S. and German astrophysicists while observing Comet Hyakutake, ROSAT revealed an incredibly strong radiation signal—about 100 times stronger than even the most optimistic predictions.

This lavishly illustrated book is the first to describe one of the most remarkable instruments in modern astronomy. It offers fascinating images and engaging accounts of a wide range of Solar System and deep-space objects such as Comet Hyakutake, the sun, the moon, and objects outside the Milky Way.

THE INVISIBLE SKY tells the story of one of the most successful scientific instruments ever sent into space, told by two of the scientists who were instrumental in the design and launching of the satellite, along with Hermann-Michael Hahn, an accomplished science journalist.

—from Copernicus

Copernicus, 1998, 175 pages, 11 1/4" x 9 1/4", hardcover, \$40.00

**Infant** galaxies, distant quasars, exploding stars, mysterious black holes, supernovae, and star deaths. Seven years after the Space Telescope's initial development, Hubble continues to captivate us with the images it obtains.

Arguably the single most successful scientific instrument ever built, the Hubble Space Telescope now has improved imaging capabilities. In recent months, it has discovered the most distant known galaxy and the most massive known star and has been at the front lines of all the most pressing questions in astrophysics.

This book, a sequel to the authors' popular HUBBLE: A NEW WINDOW TO THE UNIVERSE, incorporates the best Hubble shots from recent years and reveals the wealth of new discoveries that these images, together with other recent developments in space and ground-based astronomy, have led to, including:

- \* A gigantic impact crater on the asteroid Vesta that is 285 miles across—nearly equal to Vesta's 330-mile diameter.
- \* Ganymede, Jupiter's largest moon, is manufacturing ozone. This finding may mean that the satellite has a thin atmosphere of oxygen.
- \* Pancake-shaped disks of dust and gas swirling about and feeding embryonic stars. These disks, dubbed protoplanetary disks, contain the raw material for planet formation.
- \* Convincing evidence of the existence of black holes, obtained by measuring the speed of gas and stars in the cores of galaxies, where black holes reside. Astronomers have calculated that the mass of the black hole is at least 300 million times the mass of the sun.

This new atlas of the latest full-color images, complete with an informative and easy-to-read explanatory text, provides an exciting and gorgeously illustrated account of Hubble's latest discoveries.

—from Copernicus

Copernicus, 1998, 216 pages, 11 1/4" x 9 1/4", hardcover, \$40.00

**SEEING AND BELIEVING** tells the story, visionary by visionary and discovery by discovery, of the telescope, one of the few inventions that have revolutionized our view of the universe and how we fit into it.

In the tradition of Dava Sobel's LONGITUDE, SEEING AND BELIEVING focuses on the often larger-than-life figures whose insights and breakthroughs made our cosmological odyssey possible—from Galileo himself to William Herschel, the musician-turned-astronomer who discovered Uranus, to George Ellery Hale, who said he regularly conversed with an elf yet managed nonetheless to found both the Mount Wilson and Mount Palomar observatories. But the most fascinating character of all is the telescope itself, which, designed solely to help us determine our place in the scheme of things, is an evolving metaphor for how we see ourselves.

With a storyteller's eye and a reporter's ability to marshal and distill huge amounts of information, Richard Panek brings us an engaging and spirited chronicle of the humbling journey that has made humans smaller and the universe infinitely vaster than we ever imagined.

—from Viking

Viking, 1998, 198 pages, 4 1/2" x 7 1/4", hardcover, \$21.95

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