



# Secrets of the Hoary Deep

*Riccardo Giacconi*

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The discovery of x-rays continues to have a profound and accelerating effect on the field of astronomy. It has opened the cosmos to exploration in ways previously unimaginable and fundamentally altered the methods for pursuing information about our solar system and beyond. Nobel Prize winner Riccardo Giacconi's highly personal account of the birth and evolution of x-ray astronomy reveals the science, people, and institutional settings behind this incalculably important and deeply influential discipline.

Part history, part memoir, and part cutting-edge science, *Secrets of the Hoary Deep* is the tale of x-ray astronomy from its infancy through what can only be called its early adulthood. It also offers the companion story of how the tools, techniques, and practices designed to support and develop x-ray astronomy were transferred to optical, infrared, and radio astronomy, drastically altering the face of modern space exploration. Giacconi relates the basic techniques developed at American Science and Engineering and explains how, where, and by whom the science was advanced.

From the first Earth-orbiting x-ray satellite, Uhuru, to the opening of the Space Telescope Science Institute and the lift-off of the Hubble Space Telescope to the construction of the Very Large Telescope, Giacconi recounts the ways in which the management methods and scientific methodology behind successful astronomy projects came to set the standards of operations for all subsequent space- and Earth-based observatories. Along the way he spares no criticism and holds back no praise, detailing individual as well as institutional failures and successes, reflecting upon how far astronomy has come and how far it has yet to go.

Crisp, informative, and prognostic, Giacconi's story will captivate, inspire, and, at times, possibly infuriate professional and amateur astronomers across the breadth of the field and at all stages of their personal and professional development.

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