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EUROPA The Ocean Moon

# EUROPA

## The Ocean Moon

Search for  
an Alien Biosphere

RICHARD GREENBERG

 Springer

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# ***Europa, the Ocean Moon*** ***by Richard Greenberg***

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*Europa – The Ocean Moon* tells the story of the Galileo spacecraft probe to Jupiter's moon, Europa. It provides a detailed description of the physical processes, including the dominating tidal forces, that operate on Europa, and includes a comprehensive tour of Europa using images taken by Galileo's camera.

The book then reviews and evaluates the interpretive work carried out to date, providing a philosophical discussion of the scientific process of analysing results and the pitfalls that accompany it. This discussion is integrated into an hypothesis of what Europa is like, with an examination of the astrobiological constraints on this possible biosphere, and implications for future research, exploration, and planetary biological protection,

*Europa – The Ocean Moon*

- provides a unique understanding of the Galileo images of Europa
- discusses the theory of tidal processes that govern its icy ridged and disrupted surface
- examines in detail the physical setting that might sustain extra-terrestrial life in Europa's ocean and icy crust

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