



Springer

 1st
edition

 1st ed. 2019, VI, 450 p. 113
illus., 79 illus. in color.

Printed book

Hardcover

Printed book

Hardcover

ISBN 978-94-024-1627-5

\$ 179,99

Available

Discount group

Professional Books (2)

Product category

Monograph

Series

Space Sciences Series of ISSI

Other renditions

Softcover

ISBN 978-94-024-1629-9

Physics : Planetary Sciences

Morbidelli, A., Blanc, M., Alibert, Y., Elkins-Tanton, L., Estrada, P., Hamano, K., Lammer, H., Raymond, S., Schönbachler, M. (Eds.)

The Delivery of Water to Protoplanets, Planets and Satellites

- Provides an invaluable overview of water in the universe
- Written in a style accessible to students, young researchers and senior scientists alike
- Offers the most recent, up-to-date results in the field and puts them into context

Liquid water is essential for the emergence of life at least as we know it on Earth. Written by recognized experts in the field, this volume provides a complete inventory of water throughout the Solar System and a comprehensive overview of the evolution of water from the interstellar medium to the final planetesimals and planets. Through a series of up-to-date review papers, the book describes how water influences the geophysical evolutions of bodies and how it is in turn affected by such evolutions. Processes like atmospheric escape under the effect of stellar irradiation and collisional impacts are discussed in detail, with specific emphasis on the consequences for the budgets of water and volatile elements in general. Specific papers on the emergence of life on Earth and the prospects of habitability on extrasolar planets are included. The papers take an interdisciplinary approach to habitability, addressing it from the perspectives of astronomy, planetary science, geochemistry, geophysics and biology. Comprehensive yet easy to read, this volume serves as an invaluable resource to scholarly, professional and general audiences alike. Originally published in Space Science Reviews in the Topical Collection "The Delivery of Water to Protoplanets, Planets and Satellites"

 Order online at [springer.com/booksellers](https://www.springer.com/booksellers)

Springer Nature Customer Service Center LLC

233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

customerservice@springernature.com



ISBN 978-94-024-1627-5 / BIC: PGS / SPRINGER NATURE: SCP22060

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

 Part of **SPRINGER NATURE**