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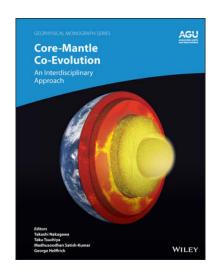
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Core-Mantle Co-Evolution: An Interdisciplinary Approach

Takashi Nakagawa (Editor), Taku Tsuchiya (Editor), Madhusoodhan Satish-Kumar (Editor), George Helffrich (Editor)

Hardcover 978-1-119-52690-2 June 2023 *Pre-order* **\$204.95**



Core-Mantle Co-Evolution

An Interdisciplinary Approach

The Earth's deep interior is difficult to study directly but recent technological advances have enabled new observations, experiments, analysis, and simulations to better understand deep Earth processes.

Core-Mantle Co-Evolution: An Interdisciplinary Approach seeks to address some of the major unsolved issues around the core-mantle interaction and co-evolution. It provides the latest insights into dynamics, structure, and evolution in the core-mantle boundary region.

Volume highlights include:

- Latest technological advances in high pressure experiments and their application to understanding the mineral physical properties and stability of phases in deep Earth
- Recent progress in observational seismology, geochemical analysis, geoneutrino experiments, and numerical modeling for understanding the heterogeneity of the lower mantle
- Theoretical investigations on thermal-chemical evolution of Earth's mantle and core
- Exploring thermal-chemical-mechanical-electromagnetic interactions in the core-mantle boundary regions

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