



Earth as an Evolving Planetary System

By Kent C. Condie

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Earth as an Evolving Planetary System is based on Kent Condie's classic text, *Plate Tectonics and Crustal Evolution*, which has been revamped and renamed in order to reflect a new emphasis on the evolving interactions of the Earth's systems. This revised volume synthesizes data from the fields of geophysics, oceanography, planetology, and geochemistry.

It features new chapters on the Earth's core, biotic systems, and the supercontinent cycle and mantle plume events. It contains expanded treatment of the evolution of the Earth's crust and mantle, carbon cycle, oxygenation of the atmosphere, and the significance of sulfur isotope fractionation. It also includes new information on mass extinctions and catastrophic events over the last four billion years that have transformed the atmosphere, oceans, and life on Earth. By integrating results from many different disciplines, this important text gives students a broader perspective of the Earth Sciences and shows how specialized data contribute to Earth and planetary history.

This text is designed for advanced undergraduate and graduate students in Earth, Atmospheric, and Planetary Sciences; and scientists in other disciplines who want to look at the Earth with a broader perspective.

- * New insight on interaction and evolution of Earth system
- * Examines the role of catastrophic events in Earth's history
- * New section on the evolution of the mantle

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Editorial Review

Review

"What we can find in this book is a snapshot of current knowledge regarding the Earth's components and how these constituent parts challenge Earth scientists to integrate their sub-disciplines into a holistic view of our home. The book is an excellent textbook for either an upper class undergraduate course or a graduate course in Earth history."

-Eos (Bulletin of the American Geophysical Union), 2005

"Author Kent Condie synthesizes data from the fields of oceanography, geophysics, planetology, and geochemistry to examine the key topics and questions relating to the evolution of Earth's crust and mantle. This volume provides a substantial update to Condie's established text, *Plate Tectonics and Crustal Evolution, Fourth Edition*. It emphasizes the interactive nature of various components of the Earth system on timescales of tens to hundreds of millions of years, and how these interactions have affected the history of the atmosphere, oceans, and biosphere."

-Linda Chappell, Information and Research Services, Lunar and Planetary Institute

From the Back Cover

Following the success of the 4th edition of *Plate Tectonics and Crustal Evolution*, this new edition has been renamed to reflect a new emphasis on the evolving interactions of the Earth system.

Earth as an Evolving Planetary System features new chapters on the core, biotic systems, and the supercontinent cycle and mantle plume events. Extensively revised, this edition contains expanded treatment of evolving Earth systems, crustal evolution, evolution of the mantle and mantle plumes, carbon cycle, oxygenation of the atmosphere, significance of sulfur isotope fractionation, and new information on mass extinctions and how catastrophic events over the last 4.6 billion years have transformed the atmosphere, oceans, and life on Earth.

Kent Condie is a professor of geochemistry at New Mexico Institute of Mining and Technology, where he has taught since 1970. Condie's research has focused primarily on the origin and evolution of continents and the early history of the Earth. An author/editor of six books, Condie has co-authored more than 275 scientific papers.

About the Author

Kent Condie is professor of geochemistry at New Mexico Institute of Mining and Technology, Socorro, NM where he has taught since 1970. Prior to that time he was at Washington University in St. Louis, MO (1964-1970). His textbook, *Plate Tectonics and Crustal Evolution*, which is widely used in upper division and graduate courses in the Earth Sciences, was first published in 1976 and has gone through four previous editions. In addition, Condie has written and edited several books. Condie's research, primarily dealing with the origin and evolution of continents and the early history of the Earth, has over the years been sponsored chiefly by the U. S. National Science Foundation. He is author or co-author of over 750 articles published in scientific journals.

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