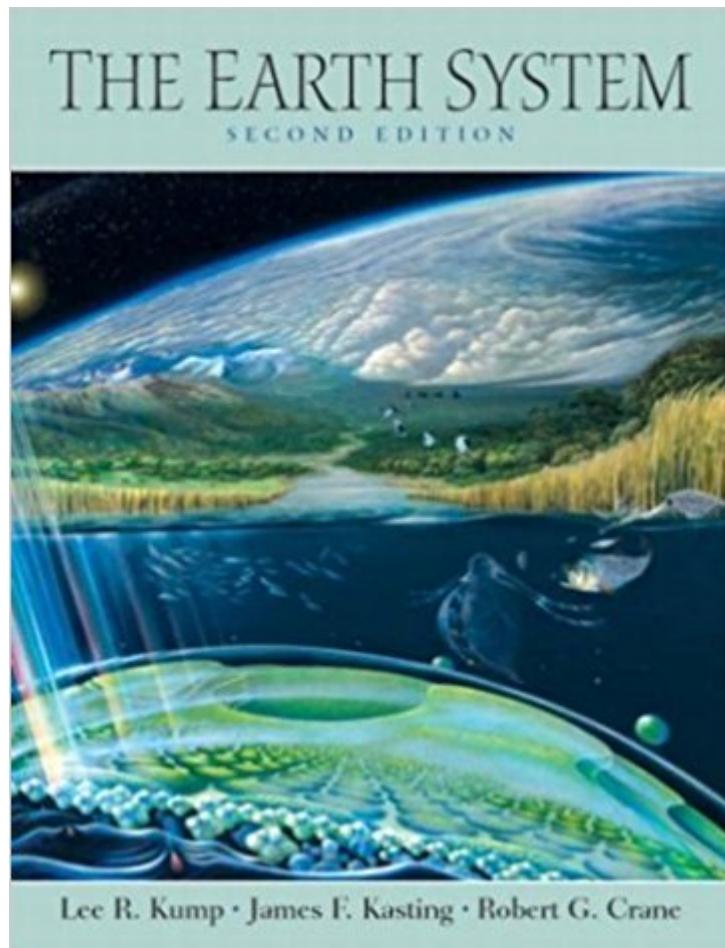


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# Earth System, The (2nd Edition)



## **Synopsis**

For courses in Earth Systems Science offered in departments of Geology, Earth Science, Geography and Environmental Science. The first textbook of its kind that addresses the issues of global change from a true Earth systems perspective, The Earth System offers a solid emphasis on lessons from Earth's history that may guide decision-making in the future. The text is more quantitative than the standard Earth science book, but the authors have remained sensitive to the needs of non-science majors.

## **Book Information**

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Average Customer Review: 4.0 out of 5 stars 21 customer reviews

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## **Customer Reviews**

The Earth System, Second Edition employs a systems-based approach to examine Earth science at the global level. This text explores how: Earth's processes have connections to the past and to each other. Seemingly small-scale changes to Earth can have large-scale effects. Processes that are occurring now are molding the course of the future. The second edition incorporates two new chapters: Modeling the Atmosphere-Ocean System; A discussion of why numerical models are necessary, how they are used, what they can tell us about past and future climates, and what their limitations are. A Focus on the Biota: Ecosystems and Biodiversity; Focuses on life's role in the Earth system, how ecosystems function, what biodiversity is, and whether or not biological diversity enhances the stability of ecosystems. Three categories of boxed text are included and offer a deeper study of the topics presented. A Closer Look; Includes more advanced concepts, results from current research, and explanations of interesting phenomena. Important

Concepts&#151;In-depth presentations of fundamental concepts from the natural sciences essential to our understanding of the Earth system. Thinking Quantitatively&#151;Demonstrates how simple mathematics can be used to better understand the workings of the Earth system.

Lee R. KumpGeology and is now editor of the Virtual Journal of Geobiology and associate editor of *Geochimica et Cosmochimica Acta*. He is a fellow of the Geological Society of America, and received the Distinguished Service Medal from the Geological Society of America in 2000. Dr. Kump's research interests include the behavior of nutrient and trace elements in natural environments, the evolution of ocean and atmosphere composition on geologic time scales, biogeochemical cycling in aquatic environments, and environmental change during extreme events (mass extinctions, extreme warm periods, glaciations) in Earth history.

I can use this book for teaching, but the material that goes with it is mediocre. The figures are generally miserably bad. I will have to develop my own material.

The "Earth as a System" approach is one of my favorite aspects of being Geoscience major. However, the book presents information at more of a high school level rather than a college level. Additionally, the content is somewhat dry at time, when this could really be an interesting topic. Even with all the faults of the book, the price is pretty good and the information presented is solid. I realize there is now a 3rd edition, that has probably improved many of the faults, but if you are interested in the Earth System theory and approach and would like an intro book, this is the book for you!

The book is like geography combined with physics.

## GREAT BOOK

Highly recommended to those interested in any field of geoscience. This book is very clear and precise. It gives a comprehensive, interdisciplinary overview of our planet. As a matter of fact, it's among some of the most well written textbooks I've ever come across.

very useful in studying 'Social Enterprise and Social Innovation' certificate [www.uni.lu](http://www.uni.lu)

in good condition

A comprehensive textbook. I rented for a reasonable price for an earth science course at Penn State.

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