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Data Assimilation for the Geosciences: From Theory to Application

Steven James Fletcher

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Data Assimilation for the Geosciences: From Theory to Application brings together all of the mathematical and statistical background knowledge needed to formulate data assimilation systems into one place. It includes practical exercises that enable readers to apply theory in a theoretical formulation and teaches how to code the theory with sample problems that verify understanding.

The book also demonstrates how data assimilation systems are implemented in larger scale fluid dynamical problems related to land surface, the atmosphere, oceans, and other geophysical situations. Users will find a comprehensive presentation of the subject, beginning with basic principles and then advanced methods, like Particle Filters and Monte-Carlo-Markov-Chain methods.

In addition, the book covers the applications of data assimilation techniques in various disciplines of geosciences, making the book useful to students, teachers, and research scientists.

- Includes practical exercises, enabling readers to apply theory in a theoretical formulation
- Teaches users how to code theory
- Presents a step-by-step guide on how, and why, data assimilation works and can be used
- Provides all of the mathematical and statistical background knowledge needed to formulate data assimilation systems into one place

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