



# **Basic Theory in Reflection Seismology, Volume 1: with MATHEMATICA Notebooks and Examples on CD-ROM (Handbook of Geophysical Exploration: Seismic Exploration)**

*By J.K. Costain, C. Coruh*

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The material in this volume provides the basic theory necessary to understand the principles behind imaging the subsurface of the Earth using reflection and refraction seismology. For reflection seismology, the end product is a "record section" from a collection of "wiggly traces" that are recorded in the field from which information about the properties of subsurface structure and rock can be derived. For the most part, the principles of imaging are the same regardless of the depth to the target; the same mathematical background is necessary for targeting a shallow water table as for investigating the base of the earth's continental "crust" at a depth of 30-50 km.

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## **Editorial Review**

### **Review**

"The material in this book provides the basic mathematical concepts and theory required to understand reflection seismology data sets used in exploration geophysics."

-Chengshu Wang, ZENTRALBLATT MATH, Volume 1096

"...well worth reading, giving, as it does, a good insight into the dissipation of seismic energy as a result of the irreversible conversion of particle motion into heat."

-Philip H.H. Nelson, in JOURNAL OF PETROLEUM GEOSCIENCE

"...this book is a straightforward, no-nonsense mathematical explanation of the basic theory."

-R.E. Sheriff, in THE LEADING EDGE, FEB 2006

## **Users Review**

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#### **Ellen Farnsworth:**

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**Nicolas Dandrea:**

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