



Solved Problems in Geophysics

By Elisa Buform, Carmen Pro, Agustín Udías

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Solving problems is an indispensable exercise for mastering the theory underlying the various branches of geophysics. This book is a collection of nearly 200 problems in geophysics, which are solved in detail showing each step of their solution, the equations used and the assumptions made. Simple figures are also included to help students understand how to reduce a problem to its key elements. The book introduces the equations most commonly used in solving geophysical problems, and presents a series of exercises for the main, classical areas of geophysics - gravity, geomagnetism, seismology, and heat flow and geochronology. Problems range from simple exercises for the most elementary courses to more complex problems suitable for graduate-level students. This handy book is the ideal adjunct to core course textbooks on geophysical theory. It is a convenient source of additional homework and exam questions for instructors, and provides students with a practice or revision aid.

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"... an extremely valuable resource ... This book will definitely clear out cobwebs that have been building in the minds of mature professionals since graduation. But perhaps its greatest application would be as a vital part of a survival kit for geophysical undergrads."

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About the Author

Elisa Buforn is a professor of geophysics at the Universidad Complutense de Madrid (UCM) where she teaches courses on geophysics, seismology, physics and numerical methods. Professor Buforn's research focuses on source fracture processes, seismicity and seismotectonics and she is Editor in Chief of Física de la Tierra and on the Editorial Board of the Journal of Seismology.

Carmen Pro is an associate professor at the University of Extremadura, Spain where she has taught geophysics and astronomy for over twenty years. She has participated in several geophysical research projects and is involved in college management.

Agustín Udías is an emeritus professor at the Universidad Complutense de Madrid (UCM) and is the author of a large number of papers about seismicity, seismotectonics and the physics of seismic sources, as well as the textbook Principles of Seismology (Cambridge University Press, 1999). He has held positions as Editor in Chief of Física de la Tierra and the Journal of Seismology and as Vice President of the European Seismological Commission.

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