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Title: The tides of the planet earth /2nd edition/

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Abstract

Results of studies of the earth's tides are synthesized, the methods of the research are explained, and recommendations for future studies are made. The major topics covered include: tidal potential; the relation between the tidal theory and the precession-nutation theory; Love numbers and the description of tidal deformations; Kelvin's and Herglotz's theories of earth tides; reduction of the problem of elastic deformations of a sphere to a system of six differential equations of the first order; the liquid-core dynamic theory; tidal analysis; and measurement of the earth's tilt. Other major subjects addressed include: measurement of gravity tide; extensometry; deformations and indirect effects of a radially symmetric earth by surface loads; local perturbations in earth tide observations; general comparisons of experimental and theoretical results; tidal effects in astronomy; earth tides, satellite orbits, and space navigation; solid tides on the moon's surface; and tidal triggering of earthquakes, volcanoes, and geyser activity.

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