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After more than 30 years of active and ground-breaking research, Professor Anthony B. Watts of Oxford University has written his first book on the subject of isostasy and flexure of the lithosphere, which is also the title of his new book published by Cambridge University Press.

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**Isostasy and Flexure of the Lithosphere, A. B. Watts
Cambridge U. Press, New York, 2001. \$110.00, \$44.95
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...

the inverse fourier transform. Later we'll combine this flexure solution with the gravity solution to develop the gravity-to-topography transfer function. Moreover, one can take this approach further to develop a Green's function relating temperature,

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heat flow, topography and gravity to a point heat source (e.g., Sandwell, Thermal Isostasy ...

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The Vening Meinesz, or flexural isostasy model – where the lithosphere acts as an elastic plate and its inherent rigidity distributes local topographic loads over a broad region by bending. Airy and Pratt isostasy are statements of buoyancy, but flexural isostasy is a statement of buoyancy when deflecting a sheet of finite elastic strength. Airy

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WATTS, A. B. 2001. Isostasy and Flexure of the Lithosphere. xix+458 pp. Cambridge, New York, Melbourne: Cambridge University Press. Price £75.00, US \$110.00 (hard covers), £29.95, US \$44.95 (paperback). ISBN 0 521 62272 7; 0 521 00600 7 (pb). - Volume 139 Issue 3

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The lithospheric flexure (also called regional isostasy) is the process by which the lithosphere (rigid outer layer of the Earth) bends under the action of forces such as the weight of a growing orogen or changes in ice thickness related to

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(de)glaciations.

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Beginning by tracing the ideas behind local and regional models of isostasy and arguing that only flexure is in accord with geological observations, the book proceeds to describe the theoretical background, the observational evidence and the constraints that flexure has provided on physical properties of the lithosphere.

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Therefore, understanding the dynamics of isostasy helps us figure out more complex phenomena such as mountain building, sedimentary basin formation, the break-up of continents and the formation of new ocean basins [1]. Theory. There are two main ideas, developed in the mid-19th century, on the way isostasy acts to support mountain masses.

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The Department of Geosciences has a PhD position vacant for applicants who wish to obtain the degree of Philosophiae Doctor (PhD). The research is coordinated with research activities within the Research Centre for Arctic Petroleum Exploration (ARCEX), which is funded by the Research Council of Norway and several industry partners. Additional information about ARCEX can be

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Perspective image (looking towards the west) of the**

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free-air gravity anomaly along the Hawaiian-Emperor seamount chain in the northwest Pacific Ocean. Hawaii Island is in the foreground. The gravity expression of the flexural moats (blue/purple region) and bulges (yellow-green region) that flank the ...

[Isostasy: A lithospheric balancing act - Geological ...](#)

Isostasy, ideal theoretical balance of all large portions of Earth's lithosphere as though they were floating on the denser underlying layer, the asthenosphere, a section of the upper mantle composed of weak, plastic rock that is about 110 km

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(70 miles) below the surface. Isostasy controls the regional elevations of continents and ocean floors in accordance with the densities of their ...

[Appendix 8: Flexure methodology Flexural isostasy and ...](#)

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topography. By combining these loads the flexure of the lithosphere and the associated Bouguer gravity anomaly are calculated for different assumed values of the elastic thickness T_e of continental lithosphere. The best fitting value of T_e for the Himalayas is 80-100 km, for the Alps 25-50 km, and for the Appalachians 80-130 km.

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[University of California, San Diego](#)

If isostasy is operating then the excess mass of mountains at the surface is supported by a mass deficiency at depth. Lithospheric flexure is a quite different mechanism of support for mountains. The idea in this case is that the outer layers of the earth can behave like an elastic plate so that loads, such as mountains, are supported by ...

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