# A Treatise on the Mathematical Theory of Elasticity

*Augustus Edward Hough Love*

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This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1920 edition. Excerpt: ... same height as the observed oceanic tides. If the tides followed the equilibrium law, the rigidity in question could be determined by observation of the actual tides and calculation of the true equilibrium height. It would be necessary to confine attention to tides of long period because those of short period are not likely to follow the equilibrium law even approximately. Of the tides of long period the nineteen-yearly tide is too minute to be detected with certainty. The annual and semi-annual tides are entirely masked by the fluctuations of ocean level that are due to the melting of ice in the polar regions. From observations of the fortnightly tides which were earned out in the Indian Oeeant it appeared that the heights of these tides are little, if anything, less than two-thirds of the true equilibrium heights. If the fortnightly tide followed the equilibrium law, we could infer that the tidal effective rigidity of the Earth is about equal to the rigidity of steel. The fact that there are observable tides at all, and the above cited results in reference to the fortnightly tides in the Indian Ocean, have been held by Lord Kelvin to disprove the geological hypothesis that the Earth has a molten interior, upon which there rests a relatively thin solid crust, and, on this and other independent grounds, he has contended that the Earth is to be regarded as consisting mainly of solid matter of a high degree of rigidity. Sir W. Thomson, London, Phil. Tram. R. Soc, vol. 153 (1863), and Math, and Phyt. Paper, vol. 3, p. 317. t Kelvin and Tait, Nat. Phil, Part n. pp. 442--460 (contributed by G. H. Darwin). The dynamical theory of the tides of long period can be worked out for an ocean of uniform depth covering the whole globe, the nucleus...

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