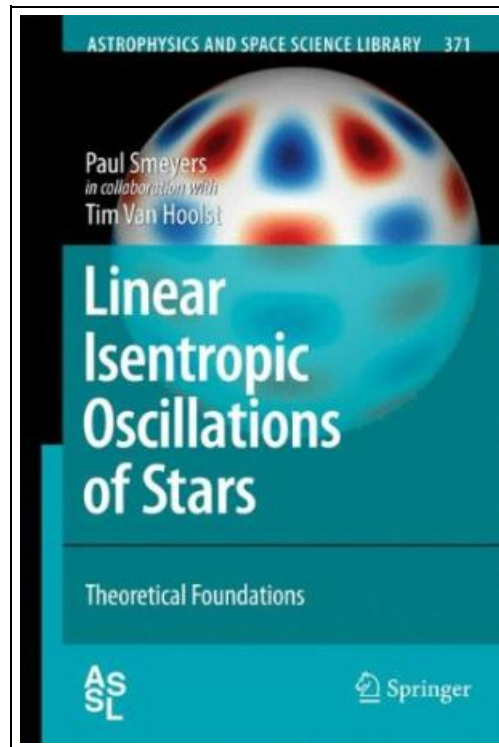


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Springer. Hardcover. Condition: New. 473 pages. Dimensions: 9.0in. x 6.1in. x 1.3in. This monograph attempts to provide a systematic and consistent survey of the fundamentals of the theory of free, linear, isentropic oscillations in spherically symmetric, gaseous equilibrium stars, whose structure is affected neither by axial rotation, nor by the tidal action of a companion, nor by a magnetic field. Three parts can be distinguished. The first part, consisting of Chaps. 1-18, covers the basic concepts and equations, the distinction between spheroidal and toroidal normal modes, the solution of Poisson's differential equation for the perturbation of the gravitational potential, and Hamilton's variational principle. The second part, consisting of Chaps. 19-31, is devoted to the possible existence of waves propagating in the radial direction, the origin and classification of normal modes, the completeness of the normal modes, and the relation between the local stability with respect to convection and the global stability of a star. In the third part, Chaps. 32-48 contain asymptotic representations of normal modes. Chapter 19 deals with slow period changes in rapidly evolving pulsating stars. The theory is developed within the framework of the Newtonian theory of gravitation and the hydrodynamics of compressible fluids. It is described in its present status, with inclusion of open questions. We give preference to the use of the adjective isentropic above that of the adjective adiabatic, since, from a thermodynamic point of view, these stellar oscillations are described as reversible adiabatic processes and thus as processes that take place at constant entropy. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Hardcover.



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