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Title:	Nonradial oscillations of stars
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Stars

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Abstract

This book deals primarily with the linear theory of nonradial oscillations of spherically symmetric stars. Emphasis is placed on observational aspects of nonradial oscillations, nonradial oscillations of individual stars, basic equations and adiabatic oscillations, excitation and damping of oscillations, and numerical results for various stellar models. Direct and indirect observational evidence for nonradial stellar oscillations is discussed along with properties of Beta Cephei and white-dwarf variables, oscillatory motions of the sun, nonradial oscillations of Alpha Cygni and other stars, linear adiabatic oscillation as a boundary-value problem, trapping of oscillations, modal classification, local stability analysis of gravity waves, and a one-zone model for fully nonadiabatic oscillations. Numerical modeling results are examined for upper-main-sequence stars, massive stars with a semiconvection zone and overstable g-modes, stars in the stage of shell hydrogen burning, white dwarfs, excitation mechanisms for Beta Cephei pulsations, solar g-mode oscillations of lower-main-sequence stars, and p-modes in the envelopes of late-type giants and dwarfs.

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