



Inverse Problems in Vibration

By G. M. L. Gladwell

Springer, Netherlands, 2012. Paperback. Book Condition: New. 235 x 155 mm. Language: English . Brand New Book. The last thing one settles in writing a book is what one should put in first. Pascal s Peneses Classical vibration theory is concerned, in large part, with the infinitesimal (i. e. , linear) undamped free vibration of various discrete or continuous bodies. One of the basic problems in this theory is the determination of the natural frequencies (eigen- frequencies or simply eigenvalues) and normal modes of the vibrating body. A body which is modelled as a discrete system of rigid masses, rigid rods, massless springs, etc. , will be governed by an ordinary matrix differential equation in time t . It will have a finite number of eigenvalues, and the normal modes will be vectors, called eigenvectors. A body which is modelled as a continuous system will be governed by a partial differential equation in time and one or more spatial variables. It will have an infinite number of eigenvalues, and the normal modes will be functions (eigen- functions) of the space variables. In the context of this classical theory, inverse problems are concerned with the construction of a model of a given...



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