An Introduction to the Mathematical Theory of Vibrations of Elastic Plates
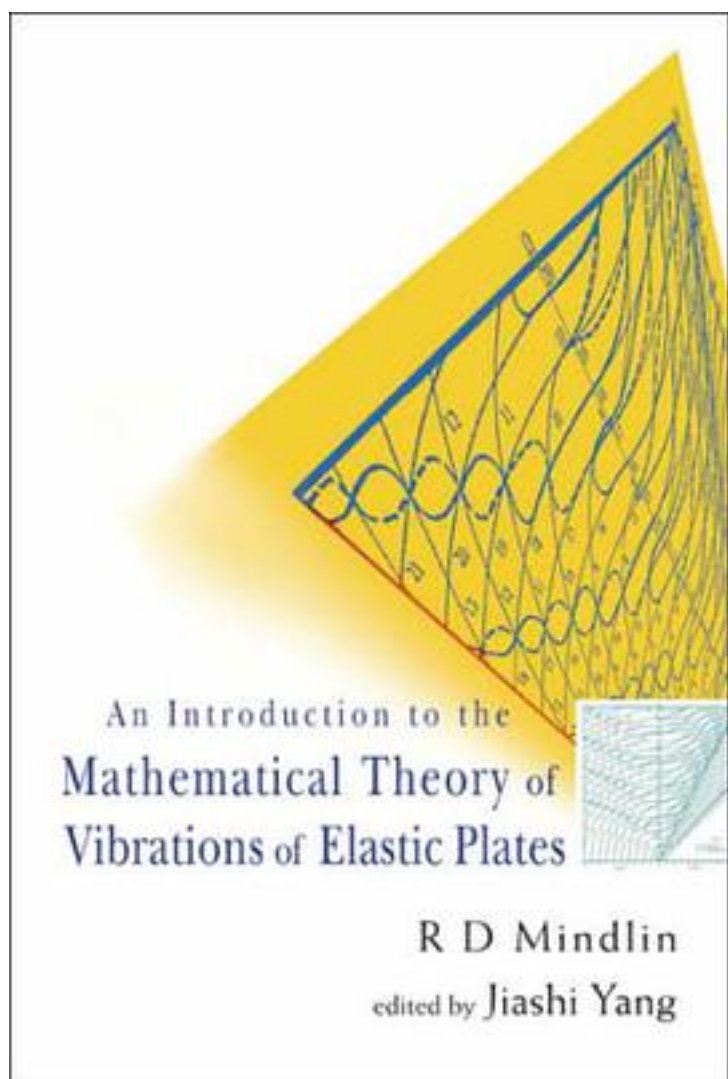
An Introduction to the Mathematical Theory of Vibrations of Elastic Plates_下载链接1_

著者:Mindlin, R. D./ Yang, Jiashi (EDT)

出版者:World Scientific Pub Co Inc

出版时间:2007-2

装帧:HRD

isbn:9789812703811

This book by the late R D Mindlin is destined to become a classic introduction to the mathematical aspects of two-dimensional theories of elastic plates. It systematically derives the two-dimensional theories of anisotropic elastic plates from the variational formulation of the three-dimensional theory of elasticity by power series expansions. The uniqueness of two-dimensional problems is also examined from the variational viewpoint. The accuracy of the two-dimensional equations is judged by comparing the dispersion relations of the waves that the two-dimensional theories can describe with prediction from the three-dimensional theory. Discussing mainly high-frequency dynamic problems, it is also useful in traditional applications in structural engineering as well as provides the theoretical foundation for acoustic wave devices.

作者介绍:

目录:

An Introduction to the Mathematical Theory of Vibrations of Elastic Plates_下载链接1_

标签

数学

of

评论

杨老师整理的大师著作

An Introduction to the Mathematical Theory of Vibrations of Elastic Plates_下载链接1_

书评

An Introduction to the Mathematical Theory of Vibrations of Elastic Plates_下载链接1_