



Antiplane Motions of Piezoceramics and Acoustic Wave Devices

Jiashi Yang

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This book focuses on dynamic antiplane problems of piezoelectric ceramics. It presents relatively simple theoretical solutions to many such problems, and attempts to use these solutions to demonstrate the operation and design of several acoustic wave devices. Some of the solutions are able to show the underlying physics clearly without the need for numerical computation. The problems treated include the propagation of plate waves, surface waves, interface waves, Love waves, gap waves, and vibrations of finite bodies of various shapes with applications in resonators, mass sensors, fluid sensors, interface sensors, phononic crystals, piezoelectric generators or power harvesters, piezoelectric transformers, power or signal transmission through an elastic wall, and acoustic wave excitation and detection for nondestructive evaluation.

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