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| Autore | Yang Jiashi <1956-> |
| Titolo | Vibration of piezoelectric crystal plates // Yang Jiashi, University of Nebraska-Lincoln, USA |
| Pubbl/distr/stampa | Singapore ; ; Hackensack, N.J., : World Scientific, 2013 New Jersey : , : World Scientific, , [2013] 2013 |
| ISBN | 981-4449-85-7 |
| Descrizione fisica | 1 online resource (xi, 419 pages) : illustrations |
| Collana | Gale eBooks |
| Disciplina | 537/.244 |
| Soggetti | Piezoelectric devices Piezoelectricity Plates (Engineering) - Vibration Quartz crystals - Electric properties |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Theory of Piezoelectricity -- Thickness Modes in Plates : Elastic Analysis -- Thickness Modes in Plates : Piezoelectric Analysis -- Shear-horizontal Waves in Unbounded Plates -- Shear-horizontal Vibrations of Finite Plates -- Waves Propagating along Dignonal Axis -- Vibration of Rectangular Plates -- Scalar Equation for Thickness Modes -- Appendix 1: Notation -- Appendix 2: Material Constants. |
| Sommario/riassunto | The first contemporary text specializing on the dynamic problems of piezoelectric crystal plates for resonant acoustic wave devices (such as resonators, filters, and sensors) since H F Tiersten's publication in 1969. This book provides an up-to-date, systematic and comprehensive presentation of theoretical results on waves and vibrations in quartz crystal plates. It expounds on the application of the theories of elasticity and piezoelectricity in acoustic wave devices made from crystal plates through a coverage spanning from classical results on acoustic wave resonators, up to present-day appl |