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Piezoelectricity: Volume One: An Introduction to the Theory and Applications of Electromechanical Phenomena in Crystals: An Introduction to the Theory and Applications of Electromechanical Phenomena in Crystals (Paperback)

By Walter Cady

Dover Publications Inc., United States, 2018. Paperback. Condition: New. Revised. Language: English. Brand new Book. After World War II, piezoelectric phenomena became extremely important in communications media and were the subject of extensive scientific investigation. This two-volume treatise, written by a major contributor to the field, offers a complete, systematic survey of the physical properties and the practical applications of piezoelectric crystals. Volume One begins with a seven-chapter examination of the fundamental properties of crystals, including elastic and dielectric characteristics, with modes of vibration and with numerical data. Succeeding chapters lead from thermodynamic principles to various formulations of piezoelectric theory, methods of measurement, and data on a large number of crystals. Volume One concludes with a discussion of the piezoelectric resonator, a topic that is further explored in Volume Two, along with properties and techniques of quartz, Rochelle salt, ferroelectric crystals, various applications of piezoelectricity, pyroelectricity, optical properties of crystals, and the atomic theory of piezoelectricity.



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