

Tensor Properties of Materials — Generalized Compliance and Conductivity

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Werner Martienssen, Hans Warlimont



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Tensor Properties of Solids presents the phenomenological development of solid state properties represented as matter tensors in two parts Part I on equilibrium tensor properties and Part II on transport tensor properties Part I begins with an introduction to tensor notation transformations algebra and calculus together with the matrix representations Crystallography as it relates to tensor properties of crystals completes the background treatment A generalized treatment of solid state equilibrium thermodynamics leads to the systematic correlation of equilibrium tensor properties This is followed by developments covering first second third and higher order tensor effects Included are the generalized compliance and rigidity matrices for first order tensor properties Maxwell relations effect of measurement conditions and the dependent coupled effects and use of interaction diagrams Part I concludes with the second and higher order effects including numerous optical tensor properties Part II presents the driving forces and fluxes for the well known proper conductivities An introduction to irreversible thermodynamics includes the concepts of microscopic reversibility Onsager's reciprocity principle entropy density production and the proper choice of the transport parameters This is followed by the force flux equations for electronic charge and heat flow and the relationships between the proper conductivities and phenomenological coefficients The thermoelectric effects in solids are discussed and extended to the piezothermoelectric and piezoresistance tensor effects The subjects of thermomagnetic galvanomagnetic and thermogalvanomagnetic effects are developed together with other higher order magnetotransport property tensors A glossary of terms expressions and symbols are provided at the end of the text and end of chapter problems are provided on request Endnotes provide the necessary references for further reading

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is laid in a discussion of tensors of the first and second ranks Tensors of higher ranks and matrix methods are then introduced as natural developments of the theory A similar pattern is followed in discussing thermodynamic and optical aspects

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Modeling of Material Damage and Failure of Structures Jacek J. Skrzypek, Artur Ganczarski, 2013-04-17 The area of material damage models has undergone a rapid development in the past few years This is an extensive and comprehensive survey of one and three dimensional damage models for elastic and inelastic solids The state of the art is reported by about 200 references The book not only provides a rich current source of knowledge but also describes examples of practical applications numerical procedures and computer codes The style of presentation is systematic clear and concise and is supported by illustrative diagrams

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