

Static Green's Functions in Anisotropic Media

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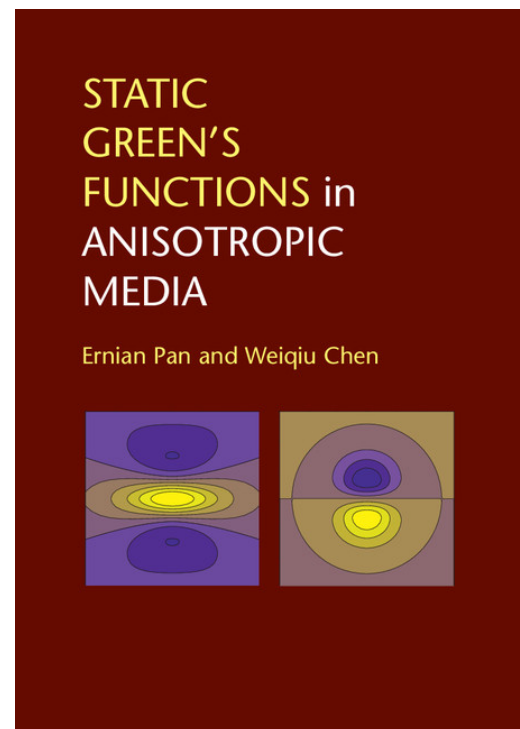
This book presents basic theory on static Green's functions in general anisotropic magnetoelastic media, including detailed derivations based on the complex variable method, potential method, and integral transforms. Green's functions corresponding to the reduced cases are also presented including those in anisotropic and transversely isotropic piezoelectric and piezomagnetic media, and in purely anisotropic elastic, transversely isotropic elastic and isotropic elastic media. Problems include those in three-dimensional, (two-dimensional) infinite, half, and biomaterial spaces (planes). While the emphasis is on the Green's functions related to the line and point force, those corresponding to the important line and point dislocation are also provided and discussed.

This book provides a comprehensive derivation and collection of the Green's functions in the concerned media, and as such, it is an ideal reference book for researchers and engineers, and a textbook for both students in engineering and applied mathematics.

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- Presents complete Green's functions and their relationships in static potential and magnetoelastic systems with detailed step-by-step derivations for self-teaching and self-understanding
- Derivations of Green's theorems, and their extensions, are presented with illustrative applications in various engineering branches
- Many embedded remarks and summary and mathematical keys are provided in each chapter to illustrate/handle the most important points

