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Titolo	The Boundary-Domain Integral Method for Elliptic Systems : With Application to Shells / / by Andreas Pomp
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Nota di contenuto	Pseudohomogeneous distributions -- Levi functions for elliptic systems of partial differential equations -- Systems of integral equations, generated by Levi functions -- The differential equations of the DV model -- Levi functions for the shell equations -- The system of integral equations and its numerical solution -- An example: Katenoid shell under torsion.
Sommario/riassunto	This monograph gives a description of all algorithmic steps and a mathematical foundation for a special numerical method, namely the boundary-domain integral method (BDIM). This method is a generalization of the well-known boundary element method, but it is also applicable to linear elliptic systems with variable coefficients, especially to shell equations. The text should be understandable at the beginning graduate-level. It is addressed to researchers in the fields of numerical analysis and computational mechanics, and will be of interest to everyone looking at serious alternatives to the well-established finite element methods.