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	Autore Podio-Guidugli Paolo
	Titolo Elasticity for geotechnicians : a modern exposition of Kelvin, Boussinesq, Flamant, Cerruti, Melan, and Mindlin problems / / P. Podio-Guidugli, A. Favata
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	Nota di contenuto About this book -- Preface -- References -- 1 One-Dimensional Paradigms -- Part I Preliminaries -- 2 Elements of Linear Elasticity -- 3 Geometric and Analytic Tools -- Part II Three Classical Problems: Flamant's, Boussinesq's, and Kelvin's -- 4 The Flamant Problem -- 5 The Boussinesq Problem -- 6 The Kelvin Problem -- Part III Three Other Problems: Melan's, Mindlin's, and Cerruti's -- 7 The Melan and Mindlin Problems -- 8 The Cerruti Problem -- Appendix -- Index of frequently used symbols -- Index.
	Sommario/riassunto This book deals in a modern manner with a family of named problems from an old and mature subject, classical elasticity. These problems are formulated over either a half or the whole of a linearly elastic and isotropic two- or three-dimensional space, subject to loads concentrated at points or lines. The discussion of each problem begins with a careful examination of the prevailing symmetries, and proceeds with inverting the canonical order, in that it moves from a search for balanced stress fields to the associated strain and displacement fields. The book, although slim, is fairly well self-contained; the only prerequisite is a reasonable familiarity with linear algebra (in particular, manipulation of vectors and tensors) and with the usual differential operators of mathematical physics (gradient, divergence, curl, and Laplacian); the few nonstandard notions are introduced with care. Support material for all parts of the book is found in the final

Appendix.