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Autore	Bertram A (Albrecht)
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Mathematical Preparation -- Kinematics -- Balance Laws -- The Principles of Material Theory -- Internal Constraints -- Elasticity -- Hyperelasticity -- Solutions -- Inelasticity -- Plasticity.
Sommario/riassunto	The valuable input of students and colleagues has enabled the author to make many improvements to the first edition of this book, without, however, changing the main structure of the book. As a result, the second edition "Elasticity and Plasticity of Large deformations" still offers a careful introduction to modern non-linear mechanics. It presents in detail the used mathematical tools, such as tensor algebra and analysis. The general theory of mechanical behavior is particularized for the broad and important classes of elasticity and plasticity. The book is intended to bring the reader close to the fields of today's research activities. A list of notations and an index help the reader to find specific topics. The book is based on three decades of teaching experience in this field.