

1. Record Nr.	UNISA996499863403316
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Titolo	Elements of classical plasticity theory // Andreas Ochsner
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2022] ©2022
ISBN	9783031142017 9783031142000
Descrizione fisica	1 online resource (116 pages)
Disciplina	306.4409113
Soggetti	Plasticity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Preface -- Contents -- Symbols and Abbreviations -- Latin Symbols (Capital Letters) -- Latin Symbols (Small Letters) -- Greek Symbols (Capital Letters) -- Greek Symbols (Small Letters) -- Mathematical Symbols -- Special Matrices -- Indices, Superscripted -- Indices, Subscripted -- Abbreviations -- 1 Introduction -- 1.1 Uniaxial Tensile Testing -- 1.2 Continuum Mechanical Modelling -- References -- 2 Theory of One-Dimensional Plasticity -- 2.1 Initial Remarks -- 2.2 Yield Condition -- 2.3 Flow Rule -- 2.4 Hardening Rule -- 2.4.1 Isotropic Hardening -- 2.4.2 Kinematic Hardening -- 2.4.3 Combined Hardening -- 2.5 Elasto-plastic Modulus -- 2.6 Consideration of Unloading, Reversed Loading and Cyclic Loading -- References -- 3 Theory of Three-Dimensional Plasticity -- 3.1 Comments on the Stress Matrix -- 3.2 Graphical Representation of Yield Conditions -- 3.3 Yield Conditions -- 3.3.1 Mises Yield Condition -- 3.3.2 Tresca Yield Condition -- 3.3.3 Drucker-Prager Yield Condition -- 3.3.4 Sayir Yield Condition -- 3.4 Flow Rule -- 3.5 Hardening Rule -- 3.5.1 Isotropic Hardening -- 3.5.2 Kinematic Hardening -- References -- 4 Elasto-plastic Finite Element Simulations -- 4.1 Approach for One-Dimensional Problems -- 4.1.1 Integration of the Material Equations -- 4.1.2 Derivation of the Fully Implicit Backward-Euler Algorithm for Isotropic Hardening -- 4.1.3 Derivation of the Fully Implicit Backward-Euler Algorithm for Kinematic Hardening -- 4.1.4 Derivation of the

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