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2.
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Autore	Chen Shenghong
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Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
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Descrizione fisica	1 online resource (782 pages)
Collana	Springer Tracts in Civil Engineering, , 2366-2603
Disciplina	624.1510151
Soggetti	Civil engineering
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Preparation Knowledge of Material Properties -- Preparation Knowledge of Classical Mechanics -- Preparation Knowledge of Numerical Analysis -- General Finite Element Methods with Special Focusing on XFEM -- General Finite Element Methods with Special Focusing on NMM -- Discrete Element Methods with Special Focusing on DEM -- Discrete Element Methods with Special Focusing on DDA -- Mesh-free Methods with Special Focusing on EFGM -- Mesh-free Methods with Special Focusing on SPH -- Hybrid Methods with Special Focusing on DEM-SPH.
Sommario/riassunto	The aim of this book is intended, through parallel expounding, to help readers comprehensively grasp the intrinsic features of typical advanced computational methods. These methods are created in recent three decades for the understanding of the post-failure of geo-materials accompanied with discontinuous and finite deformation/dislocation, as well as the violent fluid-structure interaction accompanied with strong distortion of water surface. The strong points and weak points of the formalisms for governing

equations, the discretization schemes, the nodal interpolation /approximation of field variables, and their connectivity (via support domains, covers, or enrichments), the basic algorithms, etc., are clarified. Being aware of that the differences in these methods are not so large as at the first glance, this book will help readers to select appropriate methods, to improve the methods for their specific purpose, and to evaluate the reliability/applicability of the outcomes in the hazard evaluation of geotechnical (hydraulic) structures beyond extreme work situation. This book may be looked at as an advanced continuation of "Computational Geomechanics and Hydraulic Structures" by the author (2018) (Springer-Verlag, ISBN 978-981-10-8134-7) which elaborates the fundamental computational methods in geomechanics for the routine design of geotechnical (hydraulic) engineering. .