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Crystal Plasticity Wojciech Polkowski, 2021-04-27 The book presents a collection of 25 original papers including one review paper on state of the art achievements in the theory and practice of crystals plasticity The articles cover a wide scope of research on materials behavior subjected to external loadings starting from atomic scale simulations and a new methodological aspect to experiments on a structure and mechanical response upon a large scale processing Thus a presented contribution of researchers from 18 different countries can be virtually divided into three groups namely i modelling and simulation ii methodological aspects and iii experiments on process structure properties relationship Furthermore a large variety of materials are investigated including more conventional steels copper titanium nickel aluminum and magnesium alloys and advanced ones composites or high entropy alloys The book should be interesting for senior students researchers and engineers working within discipline of materials science and solid state physics of crystalline materials

Limit Analysis and Soil Plasticity Wai-Fah Chen, 2013-07-10 Developments in Geotechnical Engineering Volume 7 Limit Analysis and Soil Plasticity covers the theory and applications of limit analysis as applied to soil mechanics Organized into 12 chapters the book presents an introduction to the modern development of theory of soil plasticity and includes rock like material The first four chapters of the book describe the technique of limit analysis beginning with the historical review of the subject and the assumptions on which it is based and then covering various aspects of available techniques of limit analysis The subsequent chapters deal with the applications of limit analysis to what may be termed classical soil mechanics problems that include bearing capacity of footings lateral earth pressure problems and stability of slopes In many cases comparisons of limit analysis solution and conventional limit equilibrium and slip like solutions are also presented Other chapters deal with the advances in bearing capacity problem of concrete blocks or rock and present theoretical and experimental results of various concrete bearing problems The concluding chapter examines elastic plastic soil and elastic plastic fracture models for concrete materials This book is an ideal resource text to geotechnical engineers and soil mechanics researchers

International Conference of Computational Methods in

Sciences and Engineering (ICCMSE 2004) Theodore Simos, George Maroulis, 2019-04-29 The International Conference of Computational Methods in Sciences and Engineering ICCMSE is unique in its kind It regroups original contributions from all fields of the traditional Sciences Mathematics Physics Chemistry Biology Medicine and all branches of Engineering The aim of the conference is to bring together computational scientists from several disciplines in order to share methods and ideas More than 370 extended abstracts have been submitted for consideration for presentation in ICCMSE 2004 From these 289 extended abstracts have been selected after international peer review by at least two independent reviewers

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