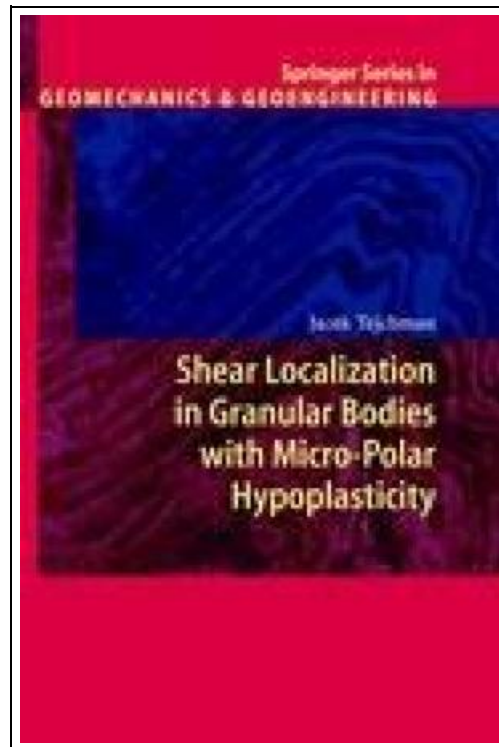


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SHEAR LOCALIZATION IN GRANULAR BODIES WITH MICRO-POLAR HYPOPLASTICITY



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Springer Okt 2010, 2010. Taschenbuch. Book Condition: Neu. 235x155x17 mm. This item is printed on demand - Print on Demand Neuware - This book includes a numerical investigation of shear localization in granular materials within micro-polar hypoplasticity, which was carried out during my long research stay at the Institute of Soil and Rock Mechanics at Karlsruhe University from 1985 to 1996. I dedicate my book to Prof. Gerd Gudehus from Germany, the former head of the Institute of Rock and Soil Mechanics at Karlsruhe University and the supervisor of my scientific research during my stay in Karlsruhe, who encouraged me to deal with shear localization in granular bodies within micro-polar hypoplasticity. I greatly - appreciate his profound knowledge, kind help constructive discussions, and collegial attitude to his co-workers. I am thankful to the both series editors: Prof. Wei Wu from Universität für Bodenkultur in Austria and Prof. Ronaldo Borja from Stanford University in USA for their helpful suggestions with respect to the contents and structure of the book. I am also grateful to Dr. Thomas Ditzinger and Mrs. Heather King from the Springer Publishing Company and SPS data processing team for their help in editing this book. Gdansk, Jacek Tejchman June 2008 Contents 1 Introduction. 1 2 Literature Overview on Experiments. 11 3 Theoretical Model. 47 3.1 Hypoplastic Constitutive Model. 47 3.2 Calibration of Hypoplastic Material Parameters. 60 3.3 Micro-polar Continuum. 67 3.4 Micro-polar Hypoplastic Constitutive Model. 72 3.5 Finite Element Implementation. 75 4 Finite Element Calculations: Preliminary Results. 328 pp. Englisch.



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