

<<计算塑性力学>>

图书基本信息

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内容概要

《计算塑性力学(英文版)》由俞茂宏、李建春所著。

《计算塑性力学(

英文版)》为《中国科技进展》丛书之一。

Computational Plasticity With Emphasis on the Application of the Unified Strength Theory explores a new and important branch of computational mechanics and is the third book in a plasticity series published by Springer. The other two are: Generalized Plasticity, Springer: Berlin, 2006; and Structural Plasticity, Springer and Zhejiang University Press: Hangzhou, 2009. This book is intended for graduate students, researchers and engineers working in solid mechanics, engineering and materials science. The theories and methods provided in this book can also be used for other computer codes and different structures. More results can be obtained, which put the potential strength of the material to better use, thus offering material-saving and energy-saving solutions.

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版权页：插图： The similar results were also obtained by other researchers. A real-life problem in geomechanics were investigated by Wunderlich et al. (2001) using a six parameters criterion. The plastic strains of strip foundation by using the Ehlers single-surface yield criterion was given by Ehlers (1995), as shown in Fig. 9.3. Bearing capacity of strip and circular footings in sand following the Mohr-Coulomb failure criterion are given by Loukidis and Salgado (2009). Collapse mechanisms as depicted by contours of the plastic maximum shear strain increment compared against the mechanism yielded by Martin's ABC program (Martin, 2002; 2005) for strip footings on weightless soil with surcharge are presented (Loukidis and Salgado, 2009).

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编辑推荐

《中国科技进展丛书:计算塑性力学(英文版)》中也介绍了中国科学院武汉岩土力学研究所、浙江大学、北京科技大学、二炮、中国水利水电科学研究院、西安交通大学、西南交通大学等单位近年来关于统一强度理论研究和在岩土、水利、土木、机械工程等方面应用的研究成果。这些系列化的研究结果可以为工程应用提供更多的资料、参考、比较和选用。

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