

Springer

1st
edition1st ed. 2019, XXIX, 890 p.
553 illus.**Printed book**

Hardcover

Printed book

Hardcover

ISBN 978-981-10-8134-7

\$ 279,99

Available

Discount group

Professional Books (2)

Product category

Monograph

Series

Springer Tracts in Civil Engineering

Other renditions

Softcover

ISBN 978-981-13-4072-7

Engineering : Geoengineering, Foundations, Hydraulics

Chen, Sheng-Hong, Wuhan University, Wuhan, China

Computational Geomechanics and Hydraulic Structures

- Provides a comprehensive, detailed, and up-to-date overview of computational geomechanics and hydraulic structures
- Addresses key issues with regard to basic principles; modern analysis tools, parameters and criteria; engineering countermeasures; and safety calibrations
- Presents a wide range of hydraulic structures, including cut slopes, foundations, underground caverns, dams, and barrages

This book presents recent research into developing and applying computational tools to estimate the performance and safety of hydraulic structures from the planning and construction stage to the service period. Based on the results of a close collaboration between the author and his colleagues, friends, students and field engineers, it shows how to achieve a good correlation between numerical computation and the actual in situ behavior of hydraulic structures. The book's heuristic and visualized style disseminates the philosophy and road map as well as the findings of the research. The chapters reflect the various aspects of the three typical and practical methods (the finite element method, the block element method, the composite element method) that the author has been working on and made essential contributions to since the 1980s. This book is an advanced continuation of Hydraulic Structures by the same author, published by Springer in 2015.

Order online at springer.com/booksellers

Springer Nature Customer Service Center LLC

233 Spring Street

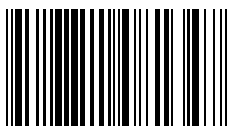
New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

customerservice@springernature.com



ISBN 978-981-10-8134-7 / BIC: RBP / SPRINGER NATURE: SCT23020

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**