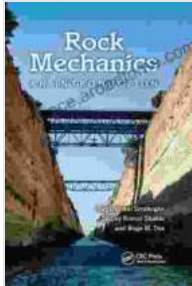


# Rock Mechanics: An Introduction by Nagaratnam Sivakugan



**Rock Mechanics: An Introduction** by Nagaratnam Sivakugan

★★★★☆ 4.6 out of 5

Language : English

File size : 20533 KB

Print length : 254 pages



Rock mechanics is a branch of engineering that deals with the mechanical behavior of rocks. It is an interdisciplinary field that draws on principles from geology, geophysics, soil mechanics, and materials science. Rock mechanics is essential for the safe and efficient design and construction of structures in rock, such as tunnels, dams, and foundations.

In this book, Nagaratnam Sivakugan provides a comprehensive to rock mechanics. The book is divided into three parts:

- Part 1 covers the basic principles of rock mechanics, including the properties of rocks, the stresses and strains that they can withstand, and the failure mechanisms that can occur.
- Part 2 discusses the methods used to investigate the mechanical behavior of rocks, including laboratory testing, field testing, and numerical modeling.

- Part 3 presents the applications of rock mechanics to the design and construction of structures in rock, such as tunnels, dams, and foundations.

Rock Mechanics: An is a valuable resource for students, researchers, and practitioners in the field of rock mechanics. The book is well-written and provides a thorough overview of the principles, methods, and applications of this essential discipline.

### **Key Features**

- Comprehensive coverage of the principles, methods, and applications of rock mechanics
- Clear and concise writing style
- Numerous worked examples and case studies
- Full-color illustrations and diagrams
- Suitable for students, researchers, and practitioners

### **Author**

Nagaratnam Sivakugan is a professor of rock mechanics at the University of Toronto. He is a world-renowned expert in the field of rock mechanics and has published over 200 papers in leading journals. Sivakugan is a member of the International Society for Rock Mechanics and is a past president of the Canadian Geotechnical Society.

### **Table of Contents**

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3. Methods of Investigation
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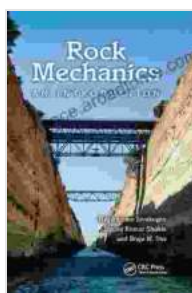
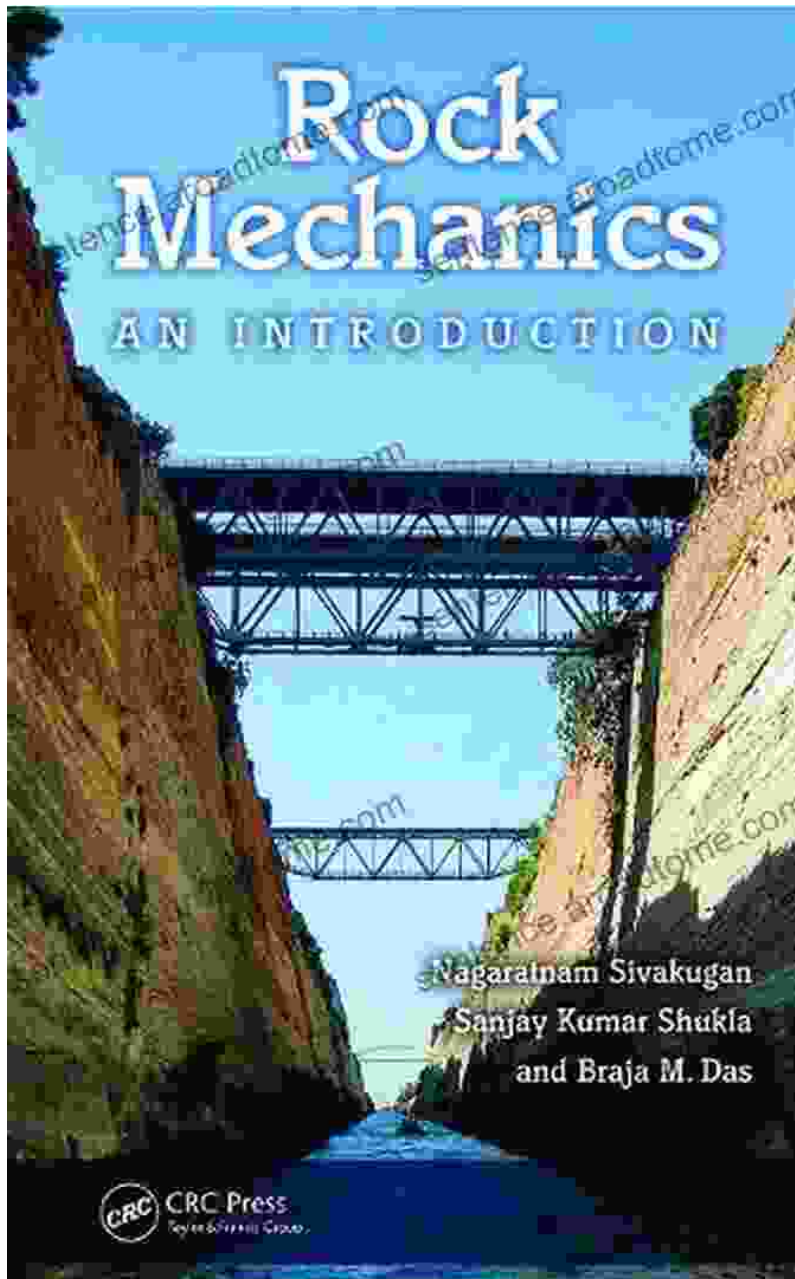
## **Endorsements**

"Sivakugan's book is a comprehensive and up-to-date to the field of rock mechanics. It is a valuable resource for students, researchers, and practitioners alike." - **Professor John A. Hudson, University of California, Berkeley**

"This book is a must-have for anyone who wants to learn about the mechanical behavior of rocks. Sivakugan provides a clear and concise overview of the principles, methods, and applications of rock mechanics." - **Professor David G. Fredlund, University of Saskatchewan**

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