

Springer

1st  
edition

1976, XI, 339 p. 20 illus.

**Printed book**

Softcover

**Printed book**

Softcover

ISBN 978-0-387-07556-3

£ 69,99 | CHF 94,50 | 79,99 € |

87,99 € (A) | 85,59 € (D)

Available

**Discount group**

Standard (0)

**Product category**

Graduate/advanced undergraduate textbook

Engineering : Solid Mechanics

Means, W.D.

# Stress and Strain

**Basic Concepts of Continuum Mechanics for Geologists**

This is an elementary book on stress and strain theory for geologists. It is written in the belief that a sound introduction to the mechanics of continuous bodies is essential for students of structural geology and tectonics, just as a sound introduction to physical chemistry is necessary for students of petrology. This view is shared by most specialists in structural geology, but it is not yet reflected in typical geology curricula. Undergraduates are still traditionally given just a few lectures on mechanical fundamentals, and there is rarely any systematic lecturing on this subject at the graduate level. The result is that many students interested in structure and tectonics finish their formal training without being able to understand or contribute to modern literature on rocks as mechanical systems. The long-term remedy for this is to introduce courses in continuum mechanics and material behavior as routine parts of the undergraduate curriculum. These subjects are difficult, but no more so than optical mineralogy or thermodynamics or other rigorous subjects customarily studied by undergraduates. The short-term remedy is to provide books suitable for independent study by those students and working geologists alike who wish to improve their understanding of mechanical topics relevant to geology. This book is intended to meet the short-term need with respect to stress and strain, two elementary yet challenging concepts of continuum mechanics.

[Order online at springer.com/booksellers](https://www.springer.com/booksellers)**Springer Nature Customer Service Center GmbH**

Customer Service

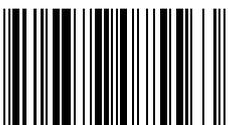
Tiergartenstrasse 15-17

69121 Heidelberg

Germany

T: +49 (0)6221 345-4301

row-booksellers@springernature.com



ISBN 978-0-387-07556-3 / BIC: TGMD / SPRINGER NATURE: SCT15010

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**