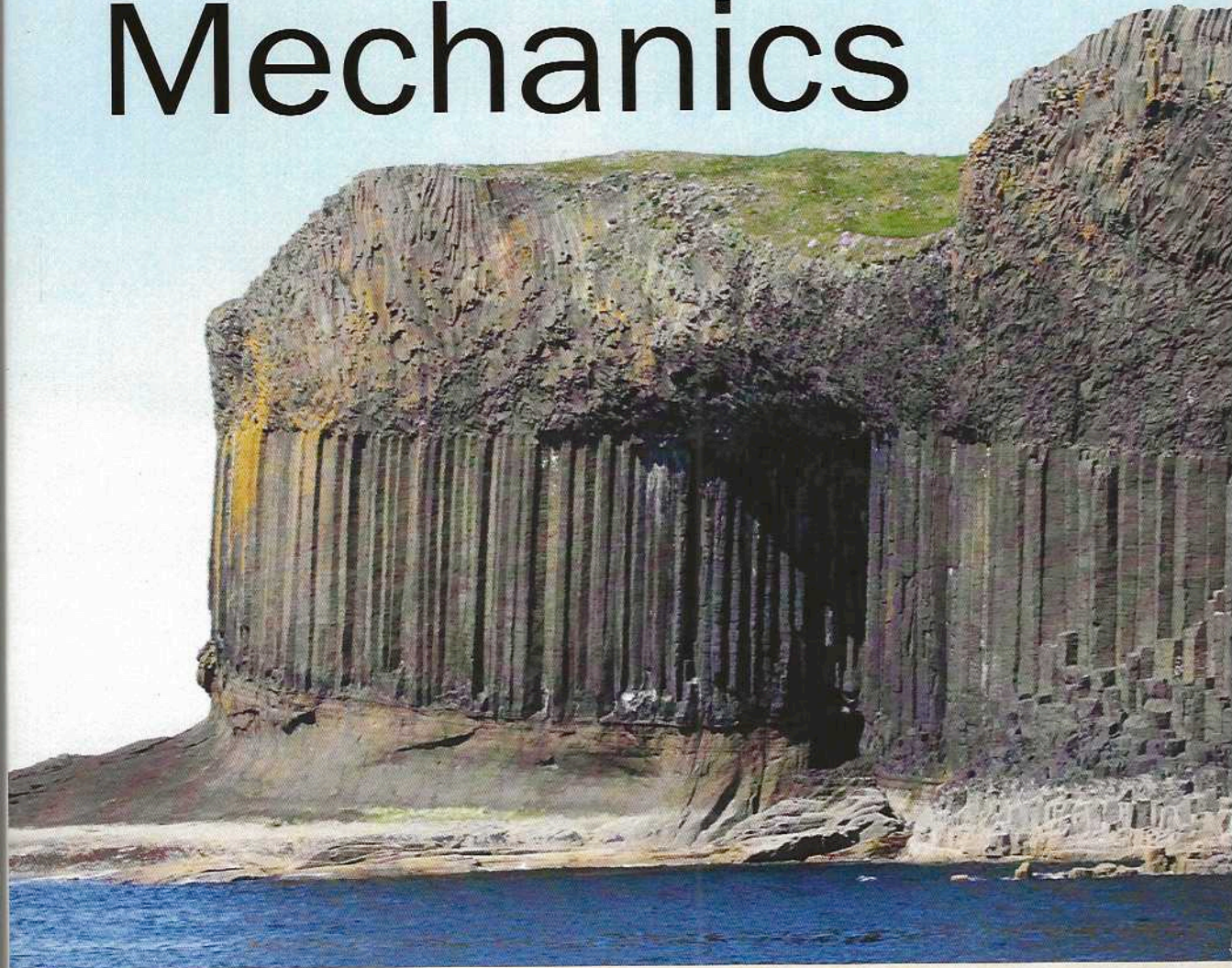


APPLIED GEOTECHNICS SERIES

# Practical Rock Mechanics



Steve Hencher



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“This book brings a fresh view of rock mechanics with great emphasis on geology and its significance in rock engineering. [It] makes a superb job in bridging between geology – structural geology – and rock mechanics and as such will prove very useful to rock engineers.”

—Yossef Hatzor, *Ben-Gurion University of the Negev*

“Provides understanding not only of mechanics but of geological aspects, and builds a good link between engineering geology and rock mechanics.”

—Jian Zhao, *Monash University*

**Practical Rock Mechanics** provides an introduction for graduate students as well as a reference guide for practising engineering geologists and geotechnical engineers. The book considers fundamental geological processes that give rise to the nature of rock masses and control their mechanical behaviour. Stresses in the earth’s crust are discussed and methods of measurement and prediction explained. Ways to investigate, describe, test and characterise rocks in the laboratory and at project scale are reviewed. The application of rock mechanics principles to the design of engineering structures including tunnels, foundations and slopes is addressed. The book is illustrated throughout with simple figures and photographs, and important concepts are illustrated by modern case examples. Mathematical equations are kept to the minimum necessary and are explained fully — the book leans towards practice rather than theory.

**Steve Hencher** is a research professor in engineering geology at the University of Leeds, UK, and until recently was head of geotechnics in the Hong Kong office of Halcrow.

## Geotechnical Engineering

Cover image: Courtesy of the Author



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