

Praise for *Elasticity and Geomechanics*,
also by Davis and Selvadurai:

"...this reviewer liked *Elasticity and Geomechanics*... The writing style is informal and reads easily....If an instructor is looking for a book on basic elasticity with a geomaterial focus, this reviewer would encourage that instructor to look at this work; he or she might be pleasantly surprised."

E.B. Pitman, *Applied Mechanics Review*

"By combining their extensive writing and teaching experiences, Davis and Selvadurai bring together in one volume much that is useful. ... The authors have kept the presentation simple and straightforward... Overall, a pleasantly readable book. Highly recommended..."

P.C. Chan, *Choice*

"Students in the fields of geotechnical/geological engineering, as well as other related earth science programs, will truly benefit from this text..."

M. Pacheco, *Engineering Geology*

Plasticity theory is widely used to describe the behaviour of soil and rock in many engineering situations. *Plasticity and Geomechanics* presents a concise introduction to the general subject of plasticity with a particular emphasis on applications in geomechanics. Metal plasticity is described and elementary theories are discussed before attention is focused specifically on geomaterials. The greater part of the book is devoted to the classical aspects of plasticity, particularly the use of upper and lower bound theorems and slip line theory. Critical state theory is introduced and Cam Clay is described in detail.

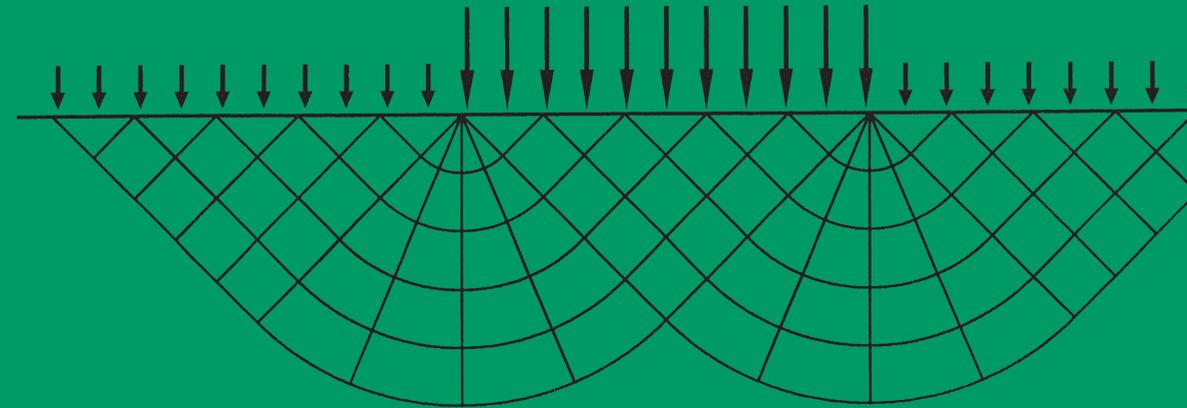
Derived from the authors' own lecture notes, this book is written with students firmly in mind: the main body of the work is concerned with applications, while the more theoretical aspects such as proofs of theorems are placed in appendices. Excessive use of mathematical methods is avoided in the main body of the text and where possible, physical interpretations are given for important concepts. In this way the authors present a clear introduction to the complex ideas and concepts of plasticity as well as demonstrating how this developing subject is of critical importance to geomechanics and geotechnical engineering.

Although entirely self-contained, this book constitutes a companion volume to the acclaimed *Elasticity and Geomechanics* by the same authors, and will appeal to students and researchers in the fields of civil, mechanical, material and geological engineering. It may be used as a text for senior-level undergraduate and graduate courses in soil mechanics, foundation engineering, and geomechanics.

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SELVADURAI
Plasticity and Geomechanics

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R. O. DAVIS and
A. P. S. SELVADURAI



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