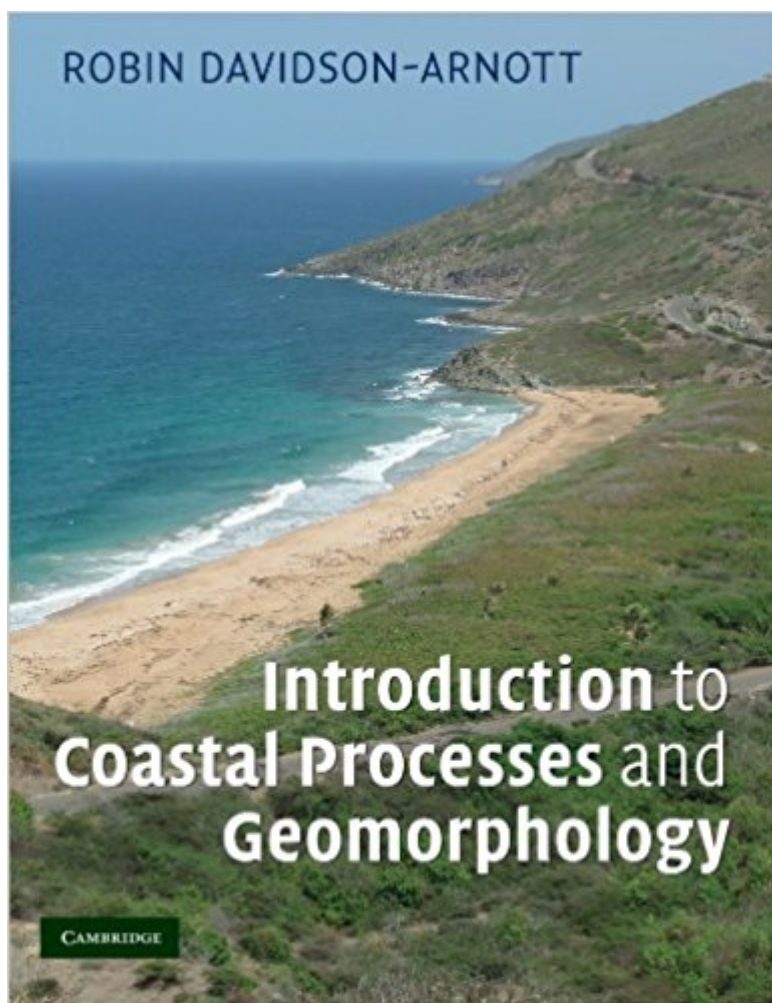


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# Introduction To Coastal Processes And Geomorphology



## Synopsis

Written for undergraduate students studying coastal geomorphology, this is the complete guide to the processes at work on our coastlines and the features we see in coastal systems across the world. Accessible to students from a range of disciplines, the quantitative approach of this book helps to build a solid understanding of wave and current processes that shape coastlines. The resulting processes of erosion, transport and deposition and the features they create are clearly explained, with over 400 illustrations and photographs. From sandy beaches to coral reefs, the major coastal features are related to contemporary processes and to sea-level changes over the past 25,000 years. Key equations describing or predicting measurements from instruments used to map these processes are all presented in this wide-ranging overview. Davidson-Arnott completes this teaching package with online material that brings the subject to life, including videos of coastal processes and virtual field trips.

## Book Information

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## Customer Reviews

" ... written with the undergraduate student in mind, providing an in-depth and fresh perspective on the key topics and debates in coastal geomorphology. This ambitious text is well written and devoid of jargon, making some of the more difficult concepts accessible to a range of levels, from undergraduate to graduate. - Robin Davidson-Arnott brings together a wealth of contemporary research on coastal systems in a clear and well structured book that provides a solid foundation for understanding coastal processes and landforms. The online materials will provide students with

access to real data, and the numerous photographs and figures provide a welcome and much needed discussion of the field methods and data analysis tools. I'm sure that the book will become the standard text for coastal geomorphology classes, and I for one will certainly adopt it." Chris Houser, Department of Geography, Texas A&M University

"This excellent book is both well-written and illustrated. With an up-to-date and detailed text, it will more than satisfy undergraduate coastal geomorphology students yet it is also clear and accessible enough to be of great use to students from a range of disciplines. Supported by a range of online material, this has to be one of the best coastal geomorphology texts available." - Jim Hansom, Department of Geographical and Earth Sciences, University of Glasgow

"Davidson-Arnott manages to provide simple explanations for complex concepts. I can see using this book both for students who have little experience in coastal geomorphology, as well as for more advanced students who have already mastered the basic concepts. I particularly liked the information on the current state of knowledge about barrier islands. This is a topic that, in other texts, is often explained very simplistically. Davidson-Arnott addresses a wide variety of factors that explain how barriers develop and evolve. The chapter on coastal dunes and aeolian processes reflects the depth of Davidson-Arnott's research into this subject matter. He has clearly given significant thought into how these systems operate, and just as importantly how to present material so that it can be understood by students using the text. The chapters on waves are excellent, ranging from a simple explanation of wave description and measurement to a more complex description of wave theory. There is material for both the beginner and more advanced student." - Professor Paul A. Gares, Department of Geography, East Carolina University

"Though intended for an introductory audience, this text offers an excellent, modern synthesis of key concepts and literature that also provides a sound knowledge base for advanced studies and researchers. Supplemented with many international examples from Davidson-Arnott's impressive career, the book covers a wide range of topics from bluff erosion to dune dynamics and is written cleanly. In addition, the author has provided excellent online resources, including field datasets and presentation quality figures and video clips. This text, and its related resources, is a must have for anyone interested in coastal geomorphology." - Ian J. Walker, Department of Geography, University of Victoria, Canada

"For those in search of an up-to-date undergraduate text that offers a fresh perspective on contemporary coastal geomorphology, this new offering has much to commend it. It combines an accessible yet scholarly treatment of the underlying processes with a broad range of interesting case studies. .... Introduction to Coastal Processes and Geomorphology would certainly be my current choice for a course text in this field." - Geological Magazine

"The figures and tables are very clear and well done." - Journal of the American Water Resources Association

Written for undergraduate students studying coastal geomorphology, this is the complete guide to the processes at work on our coastlines and the features we see in coastal systems across the world. Accessible to students from a range of disciplines, the quantitative approach of this book helps to build a solid understanding of wave and current processes that shape coastlines. The resulting processes of erosion, transport and deposition and the features they create are clearly explained, with over 400 illustrations and photographs. From sandy beaches to coral reefs, the major coastal features are related to contemporary processes and to sea-level changes over the past 25,000 years. Key equations describing or predicting measurements from instruments used to map these processes are all presented in this wide-ranging overview. Davidson-Arnott completes this teaching package with online material that brings the subject to life, including videos of coastal processes and virtual field trips.

The book appears to be very well written and the layout is good. Shipping was a little slow but it did come within the allotted time period.

This is an excellent textbook. It was recommended reading for a Coastal Geomorphology course that I took. It is a text that I will have on my library shelf forever. Excellent reference. The contributing authors in the book are extremely knowledgeable and the text is easily read and understandable. A very good book for the novice and experts alike.

Great for my class I am taking

A+++

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