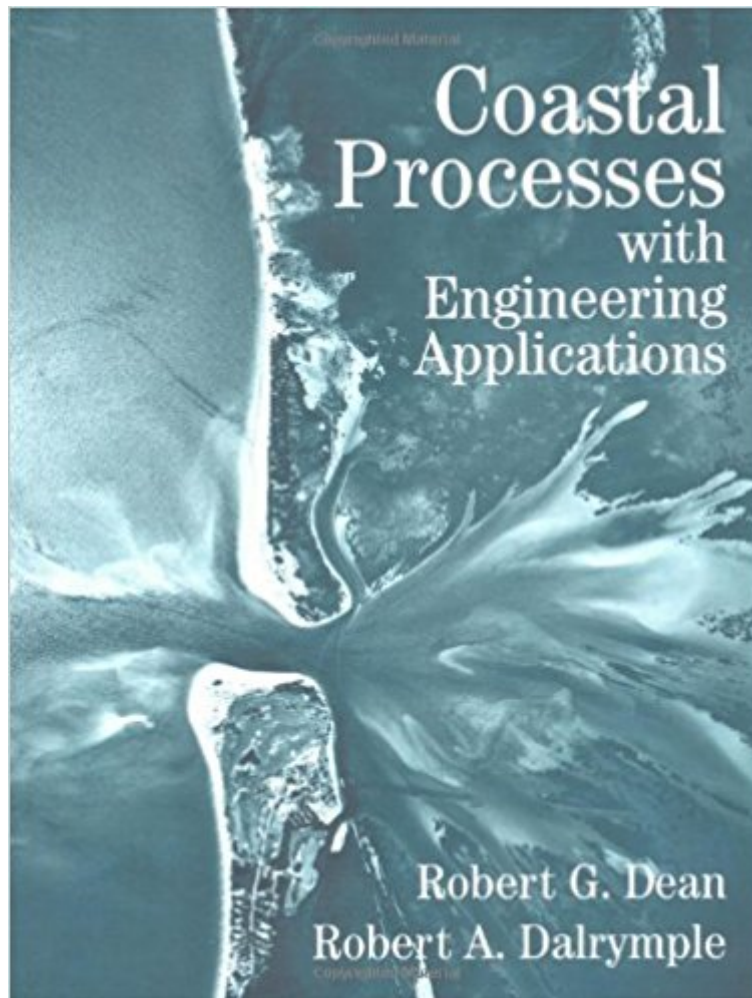




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Coastal Processes With Engineering Applications



Synopsis

The world's coastlines, dividing land from sea, are geological environments that are unique in their composition and the physical processes affecting them. At the dynamically active intersection of land and the oceans, humans have been building structures throughout history. Initially used for naval and commercial purposes, more recently recreation and tourism have increased activity in the coastal zone dramatically. Shoreline development is now causing a significant conflict with natural coastal processes. This text on coastal engineering will help the reader understand these coastal processes and develop strategies to cope effectively with shoreline erosion. The book is organized in four parts: (1) an overview of coastal engineering, using case studies to illustrate problems; (2) hydrodynamics of the coastal zone, reviewing storm surges, water waves, and low frequency motions within the nearshore and surf zone; (3) coastal responses including equilibrium beach profiles and sediment transport; (4) applications such as erosion mitigation, beach nourishment, coastal armoring, tidal inlets, and shoreline management.

Book Information

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Customer Reviews

'The book's presentation is of high standard. It can be utilized as a textbook on coastal processes and coastal engineering. The authors, who have devoted a lot of time in conducting research in coastal engineering, deserve to be congratulated on their achievement.' Bulletin'... this book is useful in providing a mathematical summary of our understanding of hydrodynamic and sediment transport processes in the coastal zone and how they may be affected by engineering applications.'

This text is organized in four parts: (1) an overview of coastal engineering, using case studies to illustrate problems; (2) hydrodynamics of the coastal zone, reviewing storm surges, water waves, and low frequency motions within the nearshore and surf zone; (3) coastal responses including equilibrium beach profiles and sediment transport; (4) applications such as erosion mitigation and shoreline management.

This is an excellent and comprehensive text. However in some areas some solved examples would help explain the mathematical concepts. The book lacks thorough examples. Dr Andrew Kerans

Very helpful resource for beach processes. Limited information on hard structures, but that doesn't seem to be the focus of this book. This book is a good companion to information presented in the Corps' Coastal Engineering Manual (CEM) that can be downloaded online.

It was. More than I thought it is going to be but it seems like anew updates not coming soon

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