

# Coastal Hydrodynamics


By J.S. Mani


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To save the coastal zone, acting as a buffer between ocean and land mass, it is necessary to understand the natural forces such as waves and storms that affect it. This book examines the characteristics of various natural processes that govern the coastal zone. It discusses the fundamentals of wind, waves, tides and fluid flow to help the reader get acquainted with the topics necessary for further understanding of coastal hydrodynamics. The book describes wave theories such as linear wave theory and Stokes higher order theories and explains wave statistics and wave prediction techniques. While discussing various theories, sufficient number of worked out examples and additional exercises are given for easy understanding. The book is intended for the undergraduate and postgraduate students of Ocean Engineering and Marine Engineering.

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