

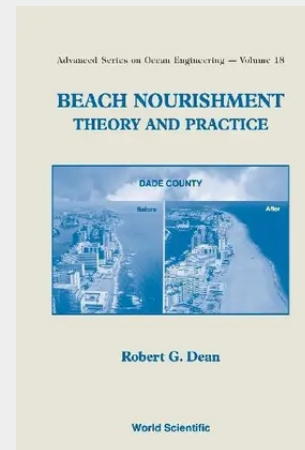
Dean

BEACH NOURISHMENT

THEORY & PRACTICE(V18)

This book is written for engineers, students of coastal processes and laypersons interested in beach nourishment, which consists of the placement of large quantities of good quality sediment on the beach to advance the shoreline seaward. The improvement of project performance through proper design and the predictability of performance are emphasized. The overall longevity of a project is addressed as are local erosional areas. The roles which wave height, project length and sediment quality play in project performance are addressed quantitatively. The results are illustrated through reference to a number of monitored nourishment projects. Biological and economic aspects of beach nourishment are addressed. Contents: Methods of and Dredging Equipment for Beach Nourishment Tools for Later Use Performance Measures and Prediction Additional Cross-Shore Considerations Additional Planform Considerations Borrow Area Considerations Costs and Benefits of Beach Nourishment Environmental Effects of Beach Nourishment Monitoring of Beach Nourishment Projects Case Studies "Professor Dean has developed many theoretical, physically sound concepts for beach nourishment design and evaluation, which are easy to apply in practice. The merit of this book is that it collects all of his earlier work and puts it into a comprehensive perspective. The book is a must for nourishment designers and a starting point for coastal scientists interested in nourishment performance." Marcel J F Stive Chair of Coastal Engineering Delft University of Technology "The theoretical background to, and the resulting equations for, predicting such changes are well set out in the main text and various appendices. Taken together with the more specific information on sand beach recharge projects in the USA, this book is a useful addition to the literature on coastal engineering." A H Brampton Technical Director Coastal and Seabed Group, Sept 2003

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