1. Record Nr. UNINA9910788107503321

Autore	Mandal B. N.
Titolo	Water wave scattering / / B.N. Mandal, Physics and Applied Mathematics Unit, Indian Statistical Institute, Kolkata, India; Soumen De, Department of Applied Mathematics, University of Calcutta, Kolkata, India
Pubbl/distr/stampa	Boca Raton : , : CRC Press, , [2015] ©2015
ISBN	0-429-06775-5
Descrizione fisica	1 online resource (375 p.)
Disciplina	531.1133
Soggetti	Scattering (Physics) Water waves Physics Engineering & Applied Sciences Physical Sciences & Mathematics Nuclear Physics Applied Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	A Science Publishers book.
Nota di bibliografia	Includes bibliographical references (pages 359-364) and indexes.
Nota di contenuto	Front Cover; Preface; Contents; CHAPTER 1 - Introduction; CHAPTER II - Scattering by Thin Barriers; CHAPTER III - Scattering by Rectangular Trench; CHAPTER IV - Scattering by a Semi-infinite Dock; CHAPTER V - Surface Discontinuities; CHAPTER VI - Long Horizontal Cylinder; CHAPTER VII - Energy Identities; CHAPTER VIII - Two-Layer Fluid; CHAPTER IX - Variable Bottom Topography; References; Back Cover
Sommario/riassunto	The theory of water waves is most varied and is a fascinating topic. It includes a wide range of natural phenomena in oceans, rivers, and lakes. It is mostly concerned with elucidation of some general aspects of wave motion including the prediction of behaviour of waves in the presence of obstacles of some special configurations that are of interest to ocean engineers. Unfortunately, even the apparently simple problems appear to be difficult to tackle mathematically unless some simplified assumptions are made. Fortunately, one can assume water to

be an incompressible, in viscid and homogeneous