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Descrizione fisica	1 online resource (ix, 236 pages) : digital, PDF file(s)
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Tidal dynamics -- Currents -- Saline intrusion -- Sediment regimes -- Synchronous estuaries : dynamics, saline intrusion and bathymetry -- Synchronous estuaries : sediment trapping and sorting : stable morphology -- Strategies for sustainability.
Sommario/riassunto	This volume provides researchers, students, practising engineers and managers access to knowledge, practical formulae and new hypotheses for the dynamics, mixing, sediment regimes and morphological evolution in estuaries. The objectives are to explain the underlying governing processes and synthesise these into descriptive formulae which can be used to guide the future development of any estuary. Each chapter focuses on different physical aspects of the estuarine system - identifying key research questions, outlining theoretical, modeling and observational approaches, and highlighting the essential

quantitative results. This allows readers to compare and interpret different estuaries around the world, and develop monitoring and modeling strategies for short-term management issues and for longer-term problems, such as global climate change. The book is written for researchers and students in physical oceanography and estuarine engineering, and serves as a valuable reference and source of ideas for professional research, engineering and management communities concerned with estuaries.

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