1. Record Nr. UNINA9911018765303321

Titolo	Innovative methods of marine ecosystem restoration / / edited by Thomas J. Goreau, Robert Kent Trench
Pubbl/distr/stampa	Boca Raton, Fla., : Taylor & Francis, 2013
ISBN	1-04-005762-4 0-429-09705-0 1-4665-5774-5
Edizione	[1st ed.]
Descrizione fisica	1 online resource (308 p.)
Classificazione	NAT010000SCI039000TEC009020
Altri autori (Persone)	GoreauThomas J TrenchRobert Kent
Disciplina	333.95/6
Soggetti	Marine ecosystem management Restoration ecology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; Foreword; Acknowledgments; CD Contents; Contributors; Chapter 1: Dedication to Wolf Hilbertz; Chapter 2: Innovative Methods of Marine Ecosystem Restoration: An Introduction; Chapter 3: Restoring Reefs to Grow Back Beaches and Protect Coasts from Erosion and Global Sea-Level Rise; Chapter 4: Reef Restoration Using Seawater Electrolysis in Jamaica; Chapter 5: Electrically Stimulated Corals in Indonesia Reef Restoration Projects Show Greatly Accelerated Growth Rates; Chapter 6: Biorock Reef Restoration in Gili Trawangan, North Lombok, Indonesia Chapter 7: Electrical Current Stimulates Coral Branching and Growth in Jakarta BayChapter 8: Electricity Protects Coral from Overgrowth by an Encrusting Sponge in Indonesia; Chapter 9: Gorgonian Soft Corals Have Higher Growth and Survival in Electrical Fields; Chapter 10: Suitability of Mineral Accretion as a Rehabilitation Method for Cold-Water Coral Reefs; Chapter 11: Utilization of Low-Voltage Electricity to Stimulate Cultivation of Pearl Oysters Pinctada maxima (Jameson); Chapter 12: Increased Oyster Growth and Survival Using Biorock Technology Chapter 13: Electrical Stimulation Increases Oyster Growth and Survival in Restoration ProjectsChapter 14: Restoration of Seagrass Mats

(Posidonia oceanica) with Electrical Stimulation; Chapter 15: Electrical Fields Increase Salt Marsh Survival and Growth and Speed Restoration in Adverse Conditions; Chapter 16: Postlarval Fish Capture and Culture for Restoring Fisheries; Chapter 17: Mariculture Potential of Gracilaria Species [Rhodophyta] in Jamaican Nitrate-Enriched Back-Reef Habitats: Growth, Nutrient Uptake, and Elemental Composition
Chapter 18: Sustainable Reef Design to Optimize Habitat RestorationChapter 19: Marine Ecosystem Electrotherapy: Practice and Theory

Sommario/riassunto

"Presenting, for the first time, data showing the dramatic results of these methods, this book presents innovative new technologies for restoring the most productive ecosystems on both land and sea while maintaining high biodiversity. These technologies are a quantum leap beyond current methods in effectiveness at restoring the biological productivity and the ecological, environmental, and economic services of ecosystems that maintain global atmospheric composition, climate, agriculture, forestry, fisheries, beaches, and fresh water supplies. The text serves as a guide to maintaining ecosystem functioning under conditions that would otherwise kill most of the key organisms living in them"--