

1. Record Nr.	UNINA9910566696703321
Autore	Theodore Louis
Titolo	Introduction to desalination : principles, processes, and calculations // R. Ryan Dupont, Louis Theodore
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, Inc., , [2022] ©2022
ISBN	1-119-69175-3 1-119-69171-0
Descrizione fisica	1 online resource (507 pages)
Disciplina	628.167
Soggetti	Saline water conversion Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Intro -- Introduction to Desalination -- Contents -- Preface -- Dedication -- Part I Introduction -- 1 Global Water Scarcity and the Need for "New Water" -- 2 Technical Glossary -- 3 Engineering Principles -- 4 Physical, Chemical, and Biological Properties of Materials -- 5 Water Properties -- 6 Water Chemistry -- 7 The Conservation Laws, Stoichiometry, and Thermodynamics -- 8 Unit Operations -- Part II Desalination and Water Treatment Processes -- 9 The Desalination Process -- 10 Evaporation -- 11 Reverse Osmosis -- 12 Crystallization -- 13 Traditional Desalination Processes -- 14 New Desalination Processes -- 15 Non-Desalination Processes -- Part III Select Related -- 16 Water Conservation -- 17 Economic Considerations -- 18 Optimization Considerations -- 19 Ethical Considerations -- 20 The Future of Desalination -- Index -- EULA.