

1. Record Nr.	UNINA9910298582003321
Autore	Mondal Sourav
Titolo	Advances in Dye Removal Technologies / / by Sourav Mondal, Mihir Kumar Purkait, Sirshendu De
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2018
ISBN	981-10-6293-5
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XXXIV, 323 p. 362 illus., 21 illus. in color.)
Collana	Green Chemistry and Sustainable Technology, , 2196-6982
Disciplina	628.3
Soggetti	Chemical engineering Water quality Water - Pollution Environmental chemistry Industrial Chemistry/Chemical Engineering Water Quality/Water Pollution Environmental Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Adsorption of Dyes -- Adsorption of Dyes From Effluent -- Surfactant Enhanced Carbon Regeneration -- Nanofiltration of Dyes -- Hybrid Treatment Method of Industrial Effluent (ADS+NF and AOP+ NF) -- Micellar Enhanced Ultrafiltration of Dye -- Cloud Point Extraction (CPE) -- Electrocoagulation -- Emulsion Liquid Membrane.
Sommario/riassunto	This book describes the various advanced treatment methods for removal of multiple types of dyes from effluent stream. It pays particular attention to the economic aspects of treatment of textile waste-water. The different technologies illustrated in the book include adsorption, nanofiltration, advanced oxidation, micellar enhanced ultrafiltration, cloud-point extraction, and electrocoagulation. The book presents in-depth analyses of the removal mechanisms and performance optimization of the processes involved therein. This book will be useful to chemists, chemical engineers, environmental engineers, and health and pollution control professionals. The contents have been presented in a manner that they can be easily understood

and applied by a wide variety of readers including researchers, students, and practicing engineers.
