

Preface

The increasing demand for water and the growing environmental concerns surrounding industrial wastewater have made effective wastewater treatment and reuse critical for sustainable development. *Industrial Wastewater Treatment & Reuse* aims to address these pressing issues by exploring a wide range of treatment methods, technologies, and strategies that industries can implement to manage wastewater efficiently. This book brings together conventional and advanced techniques, including chemical treatments, membrane filtration, bioreactors, and cutting-edge innovations in nanomaterials and electrochemical processes. The focus is not only on technological solutions but also on the economic and regulatory aspects of wastewater reuse. As industries strive to meet stringent environmental regulations, minimize operational costs, and adopt sustainable practices, this book provides a comprehensive resource for understanding and applying wastewater treatment and reuse solutions. This book is designed for researchers, practitioners, and students in environmental engineering, industrial operations, and sustainability, offering insights into real-world applications and future trends in wastewater management.