Record Nr. UNINA9910800184003321 Autore Spellman Frank R. Titolo Mathematics manual for water and wastewater treatment plant operators: wastewater treatment operations: math concepts and calculations / / Frank R. Spellman Boca Raton, FL,: CRC Press, 2017 Pubbl/distr/stampa **ISBN** 0-429-15764-9 1-138-47516-5 1-4822-2428-3 Edizione [2nd edition.] Descrizione fisica 1 online resource (256 p.): illustrations Collana Mathematics manual for water and wastewater treatment plant operators Mathematics for water and wastewater treatment plant operators Disciplina 628.101/51 Soggetti Water - Purification - Mathematics Water quality management - Mathematics Water - Purification Water quality management Sewage - Purification - Mathematics Sewage disposal - Mathematics Sewage - Purification Sewage disposal Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di contenuto Front Cover; Contents; Preface; Author; Chapter 1: Flow, Velocity, and Pumping Calculations; Chapter 2: Preliminary Treatment Calculations; Chapter 3: Primary Treatment Calculations; Chapter 4: Trickling Filter Calculations; Chapter 5: Rotating Biological Contactors; Chapter 6: Activated Biosolids; Chapter 7: Treatment Ponds; Chapter 8: Chemical Dosage: Chapter 9: Biosolids Production and Pumping Calculations: Chapter 10: Biosolids Thickening Calculations; Chapter 11: Biosolids Digestion; Chapter 12: Biosolids Dewatering and Disposal; Chapter 13: Water/Wastewater Laboratory Calculations Chapter 14: Wastewater Treatment Practice Calculations Appendix A:

Solutions to Chapter 14 Problems; Appendix B: Formulas; Back Cover

## Sommario/riassunto

To properly operate a waterworks or wastewater treatment plant and to pass the examination for a waterworks/wastewater operator's license, it is necessary to know how to perform certain calculations. All operators, at all levels of licensure, need a basic understanding of arithmetic and problem-solving techniques to solve the problems they typically encounter in the workplace.