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Autore	Ahlers Dirk
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Descrizione fisica	1 online resource (138 pages)
Collana	ACM Conferences
Soggetti	Electrical & Computer Engineering Engineering & Applied Sciences Telecommunications Electrical Engineering
Lingua di pubblicazione	Inglese
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Autore	Gerardi Michael H
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Descrizione fisica	1 online resource (191 p.)
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Nota di contenuto	Settleability Problems and Loss of Solids in the Activated Sludge Process; Contents; Preface; PART I OVERVIEW; 1 The Activated Sludge Process; 2 Floc Formation; 3 A Floc Formation Model; 4 Interruption of Floc Formation; PART II SETTLEABILITY PROBLEMS AND LOSS OF SOLIDS; 5 Introduction; 6 Undesired Filamentous Growth; 7 Nutrient-Deficient Floc Particles; 8 Denitrification; 9 Sheared Floc Particles; 10 Dispersed Floc Particles; 11 Heavy Metals and Congealed Floc Particles; 12 Low Dissolved Oxygen Concentration; 13 Young Sludge Age; 14 Floc Particles Lost Through Sludge Aging 15 Slug Discharge of Soluble cBOD16 Viscous Bulking or Zoogloeal Growth; 17 Increase in Percent MLVSS; 18 Colloidal Floc Particles; 19 Temperature; PART III FOAM AND SCUM; 20 Production and

Accumulation of Foam and Scum; 21 Identification of Foam; 22 Controlling Foam Production and Accumulation; PART IV SETTLEABILITY TESTING; 23 Settleability Testing and Settling Rate; 24 Settleability Testing: Microscopic Analyses; APPENDIX I F/M, HRT, MCRT, MLVSS, SLUDGE AGE, SVI; APPENDIX II MICROSCOPIC TECHNIQUES; References; Abbreviations and Acronyms; Chemical Compounds and Elements; Glossary; Index

Sommario/riassunto

The activated sludge process is the most versatile, commonly used wastewater treatment system in North America; however, many activated sludge processes frequently experience operational problems related to poor compaction or settleability of secondary solids and loss of secondary solids from the clarifier. Eschewing the technical jargon and copious chemical equations found in the majority of wastewater studies, *Settleability Problems and Loss of Solids in the Activated Sludge Process* speaks directly to plant operators, showing them how to identify and solve common problems and a
