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Autore	Moussa Moustafa Samir <1965->
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Nota di contenuto	Book Cover; Half-Title; Ttle; Copyright; Contents; Symbols; Summary; Chapter 1 Introduction; Chapter 2 Improved Method for Determination of Ammonia and Nitrite Oxidation Activities in Mixed Bacterial Cultures; Chapter 3 Short Term Effects of Various Salts on Ammonia and Nitrite Oxidisers in Enriched Bacterial Cultures; Chapter 4 Long Term Effects of Salt on Activity, Population Structure and Floc Characteristics in Enriched Bacterial Cultures of Nitrifiers; Chapter 5 Modelling Nitrification, Heterotrophic growth and Predation in Activated Sludge Chapter 6 Nitrification activities in full-scale treatment plants with varying salt loads. Chapter 7 Model-based evaluation of the upgrading of a full-scale industrial wastewater treatment plant; Chapter 8 Evaluation and Outlook; Samenvatting; Acknowledgments; Curriculum Vitae
Sommario/riassunto	This dissertation considers various questions with respect to the effects

of salinity on nitrification: what are the main inhibiting factors causing the effects, do all salts have similar effects, what is the maximum acceptable salt level, are ammonia oxidisers or nitrite oxidizers most sensitive to salt stress, can nitrifiers adapt to long term salt stress and are some specific nitrifiers more resistant to salt stress than others? Research was carried out at laboratory scale and in full-scale plants and modelling was employed in both phases to provide a mathematical description for salt inhib
