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To address this, Rockwell Automation has introduced its new SequenceManager solution, which enables powerful and flexible sequencing capabilities ... system navigation and

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manual interventions, and ...

Rockwell Automation SequenceManager Solution Offers Increased Functionality, Scalability for Process Applications

The 2mag bioREACTOR 48 is a new developed, space-saving and user-friendly bioreaction block with up to 48 parallelized mini reactors. The high parallelization allows an easy realization of high ...

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Controlled by an Arduino and CNC shield, these pumps are able to deliver extremely precise amounts of liquid which is

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critical for operations such as Single-cell RNA sequencing. All told a three ...

The report highlights various types of SBRs, design considerations and procedures, equipment required, and experiences gained from practical applications. This report will help both designers and operators of SBRs understand how to use this technology successfully. The focus is on the application of fill-and-draw, variable volume, periodically operated, unsteady-state principles to activated sludge systems. Research findings are presented, from both the laboratory and pilot and full scale SBRs. Also included is a

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description of trends for technological developments and a discussion of open questions regarding research, development, application, and operation. Contents

Introduction Fundamentals of Periodic Processes General Overview of SBR Applications Design of Activated Sludge SBR Plants Equipment and Instrumentation Practical Experiences Evaluation of SBR Facilities in Australia Evaluation of SBR Facilities in the USA and Canada Evaluation of SBR Facilities in Germany Evaluation of SBR Facilities in France Evaluation of SBR facilities in Japan Scientific and Technical Report No. 10

Mechanism and Design of Sequencing Batch Reactors

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The practical guide on what to do right when biological influences cause a sequencing batch reactor to go wrong. This richly illustrated, straightforward guide carries forth the legacy established by previous editions in the Wiley Wastewater Microbiology series by focusing attention on the mixed gathering of organisms cohabitating within a sequencing batching reactor (SBR), and the key roles their biology plays in this wastewater processing tank's function. With a clear, user-friendly presentation of complex subject matter, Troubleshooting the Sequence Batch Reactor first

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teaches plant operators how to differentiate the positive and expected organismal dynamics present in optimal SBR performance from the negative and damaging ones that create unhealthy sludge, and a stoppage in SBR operations. Next, Troubleshooting the Sequence Batch Reactor delivers all the tools necessary to get an SBR back on track and running safely. In this book you'll get: Short-course situations tested by the author for the past fifteen years Accessible material aimed at operators instead of design and consulting engineers Essential information for understanding biological conditions such as aerobic, anoxic, and anaerobic/fermentative at the treatment process Examination of the properties of protozoa (single-celled) and metazoa (multi-celled) organisms, and their significance in wastewater

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treatment Devoid of overwhelming scientific jargon, chemical equations, and kinetics, this book simplifies details to provide quick instruction for plant operators on how to make more informed day-to-day process control decisions, how to troubleshoot confidently when SBR conditions become compromised, and how to act decisively when the problem is ultimately identified.

The past 30 years have seen the emergence of a growing desire worldwide that positive actions be taken to restore and protect the environment from the degrading effects of all forms of pollution—air, water, soil, and noise. Because pollution is a direct or indirect consequence of waste, the seemingly idealistic demand for “zero discharge” can be

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construed as an unrealistic demand for zero waste. However, as long as waste continues to exist, we can only attempt to abate the subsequent pollution by converting it to a less noxious form. Three major questions usually arise when a particular type of pollution has been identified: (1) How serious is the pollution? (2) Is the technology to abate it available? and (3) Do the costs of abatement justify the degree of abatement achieved? This book is one of the volumes of the Handbook of Environmental Engineering series. The principal intention of this series is to help readers formulate answers to the last two questions above. The traditional approach of applying tried-and-true solutions to specific pollution problems has been a major contributing factor to the success of environmental engineering, and has

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accounted in large measure for the establishment of a “methodology of pollution control.” However, the realization of the ever-increasing complexity and interrelated nature of current environmental problems renders it imperative that intelligent planning of pollution abatement systems be undertaken.

Benchmarking Water Services provides valuable info

Wastewater Microbiology focuses on microbial contaminants found in wastewater, methods of detection for these contaminants, and methods of cleansing water of microbial contamination. This classic reference has now been updated to focus more exclusively on issues particular to wastewater,

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with new information on fecal contamination and new molecular methods. The book features new methods to determine cell viability/activity in environmental samples; a new section on bacterial spores as indicators; new information covering disinfection byproducts, UV disinfection, and photoreactivation; and much more. A PowerPoint of figures from the book is available at ftp://ftp.wiley.com/public/sci_tech_med/wastewater_microbiology.

This book discusses major technological advances in the treatment and re-use of wastewater. Its focus is on both novel treatment strategies and the modifications and adaptations of conventional processes to optimize the treatment of a complex variety of pollutants, including organic matter,

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chemicals and micropollutants in different water resources, as well as the integration of water treatment with bioelectricity production. Written by leading researchers in the field, it will be of interest to a wide range of researchers in both industry and academia.

Aerobic Granular Sludge has recently received growing attention by researchers and technology developers, worldwide. Laboratory studies and preliminary field tests led to the conclusion that granular activated sludge can be readily established and profitably used in activated sludge plants, provided 'correct' process conditions are chosen. But what makes process conditions 'correct'? And what makes granules different from activated sludge flocs? Answers to

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these question are offered in Aerobic Granular Sludge. Major topics covered in this book include: Reasons and mechanism of aerobic granule formation Structure of the microbial population of aerobic granules Role, composition and physical properties of EPS Diffuse limitation and microbial activity within granules Physio-chemical characteristics Operation and application of granule reactors Scale-up aspects of granular sludge reactors, and case studies Aerobic Granular Sludge provides up-to-date information about a rapidly emerging new technology of biological treatment.

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