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WATER AND WASTEWATER CALCULATIONS MANUAL



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succinct delivery is designed to get the reader up to speed as rapidly as possible sufficient background information is provided to explain the purpose of the calculations and ultimately tackle the complete wastewater reclamation plant design problem included in the book Example calculations are provided within each chapter each followed by exercises intended to reinforce the learning and for which solutions are appended Exercises range in difficulty from simple single calculational step problems to more complex ones and the over arching design problem provides some context to the mathematics The book can be understood by those relatively new to the water sector and is intended as a primer rather than a comprehensive handbook It is nonetheless sufficiently comprehensive to permit design calculations for most water and wastewater treatment unit processes Core disciplines covered include manipulation of equations including logarithmic and exponential expressions fluid physics for describing flow through pipes channels and filters chemical concentrations and chemical biochemical reactions chemical biochemical reaction kinetics mass balance for determining fate of materials through unit processes mass transfer for determining transfer of materials across boundaries within processes reactor theory for designing biochemical and chemical reaction vessels cost analysis including capital and operating expenditure with discounting New to the third edition new chapter on cost analysis further explanation of the classical unit operations types illustrations expanded to include unit operation schematics and symbols new examples and exercises updated design problem

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