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ABSTRACT: This book, Handbook of Environmental Engineering, Volume 4: Water Resources and Control Processes has nine chapters: (1) Surface Water Quality Analysis; (2) Water Quality Control of Tidal Rivers and Estuaries; (3) Cooling of Thermal Discharges; (4) Control of Reservoirs and Lakes; (5) Deep-Well Disposal; (6) Chemical Control of Pests and Vectors; (7) Management of Radioactive Wastes; (8) Drying and Evaporation Processes; and (9) Dredging Operations and Waste Disposal. Ask the publishers to restore access to 500,000+ books. This book or any part of it cannot be reproduced in any form or by any means without written permission of the publisher. LEC# TOPICS SUPPORTING FILES Introduction, Optimization Concepts 1 Introduction (PDF) Example: Irrigation and Salination irrigation.m (M) 2 Linear Algebra Review (PDF) 3 General Optimization Concepts (PDF) 4 General Optimization Concepts (cont.) (PDF) 5 Optimality Conditions (PDF) 6 Optimality Conditions (cont.) Optimization Methods 7 Linear Programming Overview (PDF) 8 Duality, Linear Programming Solution Strategies 9 Linear Programming Sensitivity Analysis (PDF) 10 Quadratic Programming 11 Differential Constraints (PDF) 12 Nonlinear Programming Algorithms (PDF) 13 Nonlinear Programming Algorithms (cont.) Economic Aspects 14 Optimization over Time, Discounting (PDF) 15 Multiobjective Optimization, Utility, Risk Aversion (PDF) 16 Supply and Demand, Groundwater Management (PDF) Water Resource Applications/Case Studies 17 River Basin Planning - Screening (PDF) 18 River Basin Planning - Simulation 19 Real-time Optimization, Dynamic Programming (PDF) 20 Real-time Optimization, Dynamic Programming (cont.) 21 Capacity Expansion (PDF) Lecture06_21.m (M) 22 Common Pool Problems 23 Variational and Adjoint Methods, Data Assimilation (PDF) 24 Review 25 Project Presentations 26 Project Presentations (cont.)

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