

Surface and groundwater flow and transport modeling and integrated water resources management in arid and semiarid climate

Lectures given by Prof. Ing. Driss OUAZAR, PhD * from March 31 to April 11, 2008 at the Department of Land Engineering on

Part 1: Integrated Water Resources Planning and Management

31.03.08 – 10:00-13:00 - Lecture 1: Integrated Water Resources Management
01-04-08 – 10:00-13:00 - -Lecture 2: Information Technologies in Water Resources

Part 2: Modeling and Simulation Issues

01-04-08 – 10:00-13:00 - Lecture 3: Approximation methods
02-04-08 – 10:00-13:00 - Lecture 4: The modelling Loop / Simulation
03-04-08 – 10:00-13:00 - Lecture 5: Groundwater Issues (Hydrodynamics, Contamination, Seawater intrusion)
04-04-08 – 10:00-13:00 - Lecture 6: Free surface and Flood wave propagation
01-04-08 – 10:00-13:00 - Lecture 7: optimisation aspects

Part 3: Case Studies

07-04-08 – 10:00-13:00 - Lecture 8: optimisation aspects Bouregreg dam eutrophication
08-04-08 – 10:00-13:00 - Lecture 9: Ourika Flood
09-04-08 – 10:00-13:00 - Lecture 10: Souss Massa Integrated Water Management

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