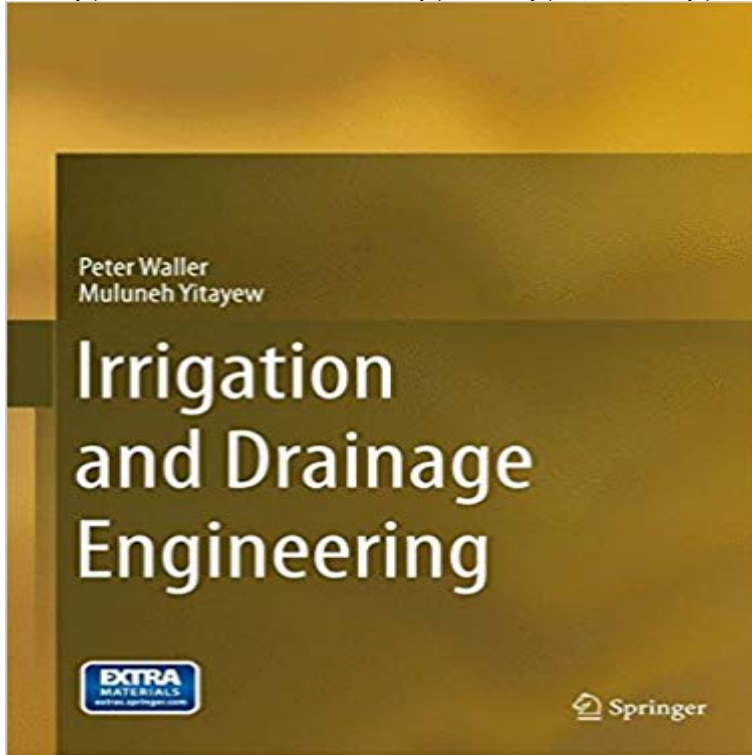


Irrigation and Drainage Engineering



This textbook focuses specifically on the combined topics of irrigation and drainage engineering. It emphasizes both basic concepts and practical applications of the latest technologies available. The design of irrigation, pumping, and drainage systems using Excel and Visual Basic for Applications programs are explained for both graduate and undergraduate students and practicing engineers. The book emphasizes environmental protection, economics, and engineering design processes. It includes detailed chapters on irrigation economics, soils, reference evapotranspiration, crop evapotranspiration, pipe flow, pumps, open-channel flow, groundwater, center pivots, turf and landscape, drip, orchards, wheel lines, hand lines, surfaces, greenhouse hydroponics, soil water movement, drainage systems design, drainage and wetlands contaminant fate and transport. It contains summaries, homework problems, and color photos. The book draws from the fields of fluid mechanics, soil physics, hydrology, soil chemistry, economics, and plant sciences to present a broad interdisciplinary view of the fundamental concepts in irrigation and drainage systems design.

Design of pumps for irrigation. Lets have an intro of pumps and their classification before going deep into design of pumps. first we are going to see an overallJournal of Irrigation and Drainage Engineering. July 1997 Volume 123, Issue 4. ISSN (print): 0733-9437 ISSN (online): 1943-4774Journal of Irrigation and Drainage Engineering. March 2000 Volume 126, Issue 2. ISSN (print): 0733-9437 ISSN (online): 1943-4774Journal of Irrigation and Drainage Engineering Read articles with impact on ResearchGate, the professional network for scientists.Journal of Irrigation and Drainage Engineering. February 2007 Volume 133, Issue 1. ISSN (print): 0733-9437 ISSN (online): 1943-4774Journal of Irrigation and Drainage Engineering. January 1990 Volume 116, Issue 1. ISSN (print): 0733-9437 ISSN (online): 1943-4774Journal of Irrigation and Drainage Engineering. December 2009 Volume 135, Issue 6. ISSN (print): 0733-9437 ISSN (online): 1943-4774Journal of Irrigation and Drainage Engineering. January 2012 Volume 138, Issue 1. ISSN (print): 0733-9437 ISSN (online): 1943-4774Journal of Irrigation and Drainage Engineering. August 2003 Volume 129, Issue 4. ISSN (print): 0733-9437 ISSN (online): 1943-4774Journal of Irrigation and Drainage Engineering. September 2010 Volume 136, Issue 9. ISSN (print): 0733-9437 ISSN (online): 1943-4774Journal of Irrigation and Drainage Engineering. February 2010 Volume 136, Issue 2. ISSN (print): 0733-9437 ISSN (online): 1943-4774Journal of Irrigation and Drainage Engineering. May 2015 Volume 141, Issue 5. ISSN (print): 0733-9437

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