



Perspectives on Environmental Management and Technology in Asian River Basins (Paperback)

By -

Springer, Netherlands, 2011. Paperback. Condition: New. 2012 ed.. Language: English . Brand New Book. Asian river basins are undergoing rapid transformation. This volume considers the implications of the environmental change-development nexus for water management, river health and hazard awareness. As Biswas and Tortajada (2011) have recently commented, water management in Asia will likely change more in the next twenty years than in the last 2000 years. Critical environmental trends include decreasing flows of water and sediment due to dam construction and increased water extraction, land use change (especially forest removal), encroachment and degradation of floodplain and wetland environments, increased water demand and concerns about water security, urban expansion and associated pollution of rivers and contamination of groundwater reserves. These challenges are being reframed by new approaches to water management which represent a transition from engineering-dominated approaches towards integrated water management, from technology transfer to adaptive technologies. The volume comprises an introduction and five chapters. Brierley and Callum reframe approaches to river repair within emerging theories of in ecology and earth science which regard nature as a complex adaptive system replete with inherent uncertainties. These ideas are mirrored in the four case study chapters which deal with water governance in the...



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