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Water Resources Systems Planning and Management: An Introduction to Methods, Models and Applications



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ABSTRACT

Throughout history much of the world has witnessed □ ever-greater demands for reliable, high-quality and □ inexpensive water supplies for domestic consumption, □ agriculture and industry. In recent decades there have □ also been increasing demands for hydrological regimes □ that support healthy and diverse ecosystems, provide for □ water-based recreational activities, reduce if not prevent □ floods and droughts, and in some cases, provide for the □ production of hydropower and ensure water levels adequate □ for ship navigation. Water managers are challenged □ to meet these multiple and often conflicting demands. At □ the same time, public stakeholder interest groups have □ shown an increasing desire to take part in the water □ resources development and management decision making □ process. Added to all these management challenges □ are the uncertainties of natural water supplies and □ demands due to changes in our climate, changes in □ people's standards of living, changes in watershed land □ uses and changes in technology. How can managers □ develop, or redevelop and restore, and then manage water □ resources systems - systems ranging from small watersheds □ to those encompassing large river basins and coastal □ zones - in a way that meets society's changing objectives □ and goals? In other words, how can water resources □ systems become more integrated and sustainable?

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