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Autore	Alexander, Louis George
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HYDRAULICS OF CULVERTS; HYDRAULICS OF EMERGENCY SPILLWAYS; CULVERT OUTLET PROTECTION; Problems; References; Chapter 6. Channel Flow Routing and Reservoir Hydraulios; FLOW ROUTING; CHANNEL ROUTING
HYDRAULIC FLOW ROUTING RESERVOIR ROUTING; USES OF RESERVOIR ROUTING; Problems; References; Chapter 7. Sediment Properties and Transport; INTRODUCTION; BASIC PRINCIPLES OF SEDIMENTATION; PARTICLE SIZE CLASSIFICATIONS; DEVELOPING SIZE DISTRIBUTION DATA; SEDIMENT TRANSPORT; Problems; References; Chapter 8. Erosion and Sediment Yield; INTRODUCTION; FUNDAMENTAL EROSION MODELING; RILL AND INTERRILL EROSION MODELING: USLE / RUSLE EMPIRICAL MODELS; RILL AND INTERILL EROSION MODELING: COMMENTS ON PROCESS-BASED MODELS; CALCULATING CONCENTRATED CHANNEL FLOW EROSION; ESTIMATING SEDIMENT YIELD
PREDICTING THE TIME DISTRIBUTION OF SEDIMENT: A SEDIGRAPH PROCESS-BASED EROSION MODELS: CREAMS SEMITHEORETICAL RILL AND INTERRILL MODEL; PROCESS-BASED EROSION MODELS: WEPP THEORETICAL RILL AND INTERRILL MODEL; Problems; References; Chapter 9. Sediment Control Structures; INTRODUCTION; SEDIMENT DETENTION BASINS; CONSTRUCTED WETLANDS; VEGETATIVE FILTER STRIPS AND RIPARIAN VEGETATION; POROUS STRUCTURES: CHECK DAMS, FILTER FENCES, AND STRAW BALES; SEDIMENT TRAPS; INERTIAL SEPARATION: THE SWIRL CONCENTRATOR; SYSTEMS APPROACH TO SEDIMENT CONTROL; Problems; References
Chapter 10. Fluvial Geomorphology: Fluvial Channel Analysis and Design INTRODUCTION; CHANNEL CLASSIFICATION; CHANNEL MORPHOLOGY; ALLUVIAL CHANNEL BEDFORM; FLOW RESISTANCE; CHANNELS IN REGIME; GRAVEL CHANNELS; MODELING CHANNEL RESPONSE TO CHANGE; DYNAMIC MODELS OF CHANNEL CHANGE; Problems; References; Chapter 11. Ground Water; INTRODUCTION; LOCATION OF GROUND WATER PROVINCES; BASIC CONCEPTS OF GROUND WATER HYDRAULICS; FRACTURE ROCK HYDROLOGY; MOVEMENT OF POLLUTANTS; Problems; References; Chapter 12. Monitoring Hydrologic Systems; UNCERTAINTY; INSTRUMENTS; SOURCES OF DATA (U.S.); PRECIPITATION RUNOFF

Sommario/riassunto

The Clean Water Act, with its emphasis on storm water and sediment control in urban areas, has created a compelling need for information in small-catchment hydrology. Design Hydrology and Sedimentology for Small Catchments provides the basic information and techniques required for understanding and implementing design systems to control runoff, erosion, and sedimentation. It will be especially useful to those involved in urban and industrial planning anddevelopment, surface mining activities, storm water management, sediment control, and environmental management. This class-tested text, which presents many solved problems throughout as well as solutions at the end of each chapter, is suitable for undergraduate, graduate, and continuing education courses. In addition, practicing professionals will find it a valuable reference.