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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Planning and Design of Hydraulic Projects -- Study on material properties -- Actions on Hydraulic Structures and Their Effect Combinations -- Analysis of Action Effects for Hydraulic Structures -- Design Criteria and Methods for Hydraulic Structures -- Gravity Dams -- Arch Dams -- Embankment dams -- Rockfill dams -- Sluices and Barrages -- Shore spillways -- Hydraulic tunnels -- Rock Slopes in Hydraulic Projects -- Hydraulic steel gates -- Irrigation and drainage works -- Appurtenant works -- Operation and maintenance of hydraulic structures.
Sommario/riassunto	This book discusses in detail the planning, design, construction and management of hydraulic structures, covering dams, spillways, tunnels, cut slopes, sluices, water intake and measuring works, ship locks and lifts, as well as fish ways. Particular attention is paid to considerations concerning the environment, hydrology, geology and materials etc. in the planning and design of hydraulic projects. It also considers the type

selection, profile configuration, stress/stability calibration and engineering countermeasures, flood releasing arrangements and scouring protection, operation and maintenance etc. for a variety of specific hydraulic structures. The book is primarily intended for engineers, undergraduate and graduate students in the field of civil and hydraulic engineering who are faced with the challenges of extending our understanding of hydraulic structures ranging from traditional to groundbreaking, as well as designing, constructing and managing safe, durable hydraulic structures that are economical and environmentally friendly.
