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Titolo	Design of Canals [[electronic resource] /] / by P.K. Swamee, B.R. Chahar
Pubbl/distr/stampa	New Delhi : , : Springer India : , : Imprint : Springer, , 2015
ISBN	81-322-2322-5
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (188 p.)
Collana	Springer Transactions in Civil and Environmental Engineering, , 2363-7633
Disciplina	627.13
Soggetti	Engineering geology Engineering—Geology Foundations Hydraulics Hydrology Water-supply Geoengineering, Foundations, Hydraulics Hydrology/Water Resources Water Industry/Water Technologies
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Introduction -- Objective Functions -- Basic Canal Hydraulics -- General Principles of Canal Design -- Design for Minimum Flow Area -- Minimum Section Cost Canals -- Minimum Water-Loss Canals Section -- Overall Minimum Cost Canal Sections -- Design of Canal Transitions -- Optimal Design of Transmission Canal -- Salient Features of Canal Route Alignment -- Lambert's W-Function -- Schwarz-Christoffel Transform -- Solution of Cubic Equation -- Index.
Sommario/riassunto	The book presents firsthand material from the authors on design of hydraulic canals. The book discusses elements of design based on principles of hydraulic flow through canals. It covers optimization of design based on usage requirements and economic constraints. The book includes explicit design equations and design procedures along with design examples for varied cases. With its comprehensive coverage of the principles of hydraulic canal design, this book will

prove useful to students, researchers, and practicing engineers. End-of-chapter pedagogical elements make it ideal for use in graduate courses on hydraulic structures offered by most civil engineering departments across the world.

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