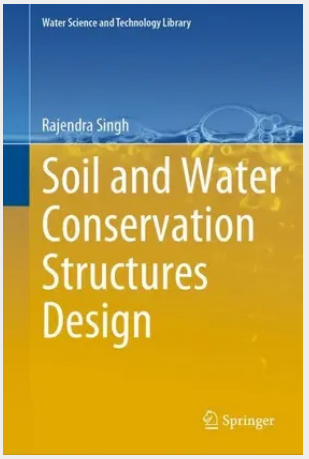
Singh

Soil and Water Conservation Structures Design



The book is designed to serve as a textbook for graduate and undergraduate courses on soil and water conservation engineering for students of agricultural engineering, civil engineering, environmental engineering and related disciplines. The book presents the basics of soil and water erosion, and describes the measures to control erosion, focusing on structures to prevent and control erosion. The chapters dedicated to erosion control structures provide a detailed view of each structural construction, covering the function, design and elements of each type of structure. Some common type of structures covered in the book are terrace, bunds, vegetated waterways, and gully control structures, including spillways. The book also covers wind erosion and control structures to prevent wind erosion. Each chapter includes pedagogical elements such as examples, practice questions, and multiple-choice-type questions to improve understanding and aid in self-study. Besides serving as a textbook university coursework, the book can also serve as a supplementary or primary text for professional development courses for practicing engineers engaged in soil and water conservation or watershed management. The book will also serve as a reference for professionals, environmental consultants, and policy makers engaged in soil and water conservation related fields.

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