

# PREFACE

Soil and water conservation engineering is a crucial field that deals with the management and protection of natural resources, such as soil and water. As the population continues to grow, the demand for food, water, and energy increases, putting more pressure on these resources. Climate change and land use changes also have a significant impact on soil and water conservation. Therefore, we must understand its principles and practices in order to sustainably manage these resources.

This book primarily focuses on becoming a one stop solution for the subject of Soil & Water Conservation Engineering and to abridge the gap of non-availability of a complete book on this particular subject. It provides an in-depth introduction to the field of Soil and Water Conservation Engineering mainly focusing towards preparing aspirants for GATE Agricultural Engineering examination and also for students who intend to appear for other exams like JRF, ARS, and IFS examinations.

This book is organized in a logical and coherent manner, starting with the basics of soil and water conservation, and progressing through to more advanced topics. Each chapter includes a summary of key concepts, 35 years of solved previous questions in GATE (AG) to have a complete understanding of each and every chapter. The book is also fully illustrated with figures and photos, to help readers visualize the concepts and techniques discussed.

We are extremely grateful to all our teachers who have constantly supported and guided us mainly Dr. (Mrs.) Alivia Chowdhury (Assistant Professor & Head, Soil & Water Engineering Department, Faculty of Agricultural Engineering, Bidhan Chandra Krishi Viswavidyalaya, Nadia, WB) who has acted as one of the key sources of information and fact checked our journey throughout & to our B.Tech friends Subhamoy Shit & Anup Kumar Sardar for their encouragement and push towards making this book a success.

We hope that this book will serve as a valuable resource for anyone interested in understanding and attempting to gain utmost knowledge on this subject, any feedback and positive criticism are welcomed for improving the upcoming volumes we hope to bring to you.

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