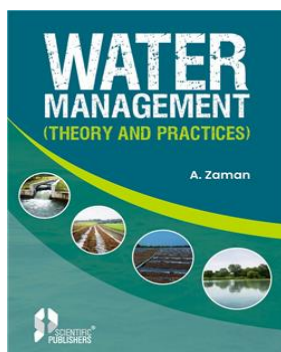


Water Management (Theory and Practices)

[A Zaman](#)



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Blurb

This textbook is primarily designed for undergraduate and postgraduate students specialising in Agronomy, Agricultural Engineering, Water Resources Management, Soil Science, and related degrees in agriculture and agricultural allied subjects across the disciplines. The book will also prove invaluable to extension workers, farm managers, and irrigation professionals seeking a definitive reference guide to enhance efficiency and productivity in the field. By integrating rigorous theory with comprehensive, step-by-step practical procedures-all aligned with the specified course curriculum-this book aims not just to impart knowledge, but to cultivate a generation of skilled water managers capable of tackling the complex challenges of sustainable agriculture. I firmly trust that this volume will serve as an essential resource, empowering readers to contribute meaningfully to the conservation and efficient utilisation of our most precious natural resource. The help and support received in preparing the text book from various sources are being gratefully acknowledged.

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Method of soil moisture estimation, evapotranspiration, crop water requirement, and effective rainfall

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1. Micro irrigation Method: Sprinkler irrigation

2. Layout of different irrigation systems, irrigation efficiency, water use efficiency and conjunctive use of

3. water

4. Water management of different agronomic and horticultural crops (rice, wheat, maize, groundnut, sugarcane, mango, banana, and tomato) and implementation of on-farm water management

5. Irrigation Water Quality: Criteria and its Management in Agriculture

5. Irrigation management practices for different soils and crops

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8. Visit to an irrigation research center/station and visit to an irrigation command area

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