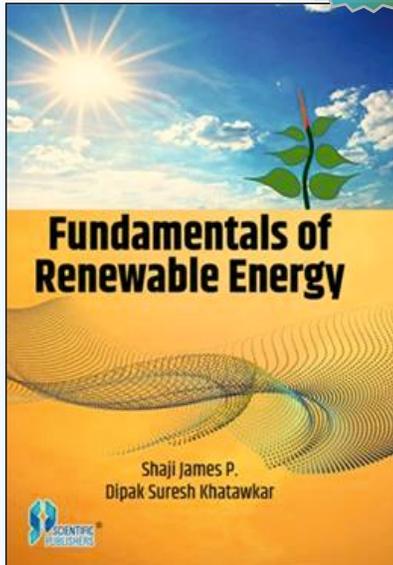


Fundamentals of Renewable Energy

Shaji James P. | Dipak Suresh Khatawkar

New Release
2023

Colour
Pages



ISBN: 9789392590016 Pages: 380

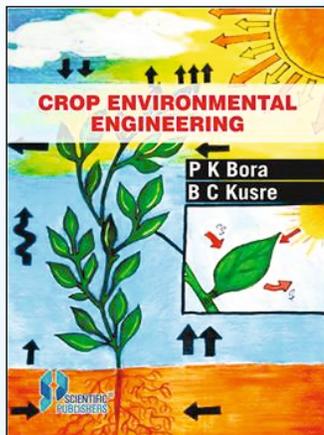
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| 1. Energy, Development and Environment | 9. Anaerobic Bioconversion of Biomass for Energy | 18. Energy from Microalgae |
| 2. The Sun and Solar Radiation | 10. High-Rate Anaerobic Bioreactors for Energy Production | 19. Hydropower |
| 3. Solar Thermal Energy Utilization | 11. Fuel Alcohol | 20. Ocean Thermal Energy Conversion |
| 4. Solar Photovoltaic Energy Conversion | 12. Biological Hydrogen Production | 21. Wave Energy |
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| 6. Wind Turbines | 14. Biomass Combustion | 23. Geothermal Energy |
| 7. Wind Resource Analysis | 15. Densification of Biomass for Energy Conversion | 24. Clean Development Mechanism and Renewable Energy |
| 8. Energy from Biomass–Bioenergy | 16. Thermo-Chemical Gasification and Pyrolysis of Biomass | 25. Energy Management and Conservation |
| | 17. Biodiesel | 26. Energy Conversion of Municipal Solid Waste |

About The Book

Renewable Energy is a topic of current academic interest not only for engineers, but for many others in various disciplines of science, agriculture and management. 'Fundamentals of Renewable Energy', is a comprehensive book dealing with all basic aspects of renewable energy in a simple language so as to make the topic conceivable and palatable to non-professionals. The book deals with the basic principles starting with the energy driven development of human societies and man's relationships with the environment. All areas of current importance viz. solar energy, wind energy, bioenergy, hydel power, energy from wastes, green hydrogen, energy from ocean, geothermal energy, energy management are explained in 26 chapters. Newer topics like 'anaerobic bioreactors' and 'energy production from microalgae' are also briefly introduced. The book is intended for students, teachers and to anybody who wish to understand the subject from its fundamental concepts.

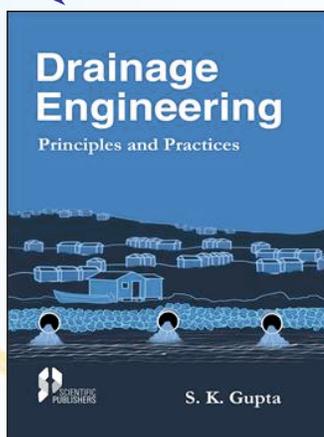
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Crop Environmental Engineering

P K Bora | B C Kusre

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|---|--|---|--|
| 1. Edaphology and Edaphic Properties | 4. Modification of Environmental Factor for Plant Growth | 8. Drought Indices for Drought Characterization | 12. Hydroponics: Soil less Cultivation |
| 2. Solar Energy in Relation to Plant Growth | 5. Different Stress on Crop Growth | 9. Soil-Plant-Atmospheric Continuum | 13. Crop Growth Models |
| 3. Environmental Factors in Growth Process | 6. Thermodynamics | 10. Controlled and Protected Cultivation | 14. Climate change and its effect on Crop production |
| | 7. Evapo-transpiration & Crop-Coefficient | 11. Design and Construction of Green House | |

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Drainage Engineering: Principles and Practices

S.K. Gupta

Table Of Contents:

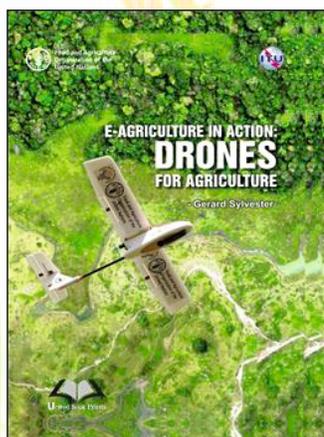
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|---|---|--|
| 1. Water Logging – Soil Salinity And Drainage | 5. Drainage Materials | 10. Characterization And Management Of Saline Water |
| 2. Surface Drainage Methods | 6. Construction And Evaluation Of Systems | 11. Economic Analysis And socio-environmental Issues |
| 3. Drainage Investigations | 7. Special Drainage Technologies | |
| 4. Design Of Subsurface Drainage Systems | 8. Salt Affected Soils:reclamation And Management | |
| | 9. Reclamation And Management Of Acid Soils | |

E-agriculture in Action: Drones for Agriculture

FAO

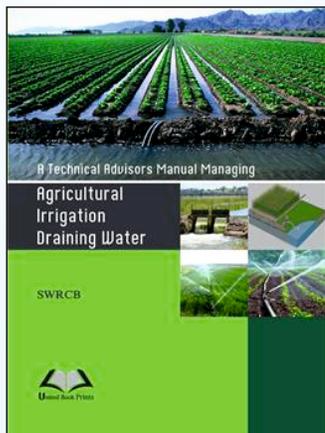
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| 1. Unmanned aerial systems (UAS) in agriculture: regulations and good practices | 5. Drones-based sensor platforms | 10. Internet of things application in agriculture and use of unmanned aerial vehicles (UAVs) |
| 2. Drone technology as a tool for improving agricultural productivity | 6. Use of unmanned helicopters for agriculture | |
| 3. Mapping and monitoring rice areas using remote sensing, crop modelling and information and communication technology | 7. Space technology use in crop insurance | |
| | 8. Institutionalizing drone mapping applications for disaster risk management in agriculture | |


 ISBN: 9789388172028 pages: 531
 Year: 2019 | Price: ₹1595

A Technical Advisors Manual Managing : Agricultural Irrigation Draining Water

S.K. Gupta



ISBN: 9788193698501 Pages: 190

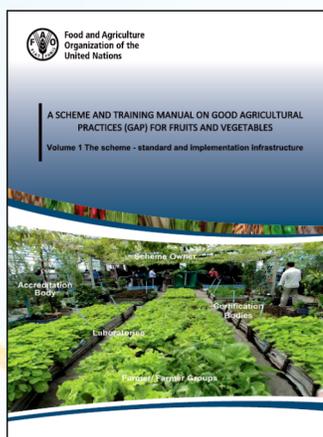
Year: 2023 | Price: ₹1250

Table of Contents:

1. Introduction
2. IFDM System Description and Example of Operating IFDM System
3. IFDM System Design Considerations
4. Frainage Water
5. Crop Selection for IFDM Systems
6. IFDM System Management
7. Monitoring, Recordkeeping and Reporting
8. Economic Analysis of IFDM9. Future Research
9. Future Research

Ascheme and Training Manual on Good Agricultural Practices (GAP) for Fruits and Vegetable

Shashi Sareen



ISBN: 9789391418571 Pages: 133

Year: 2023 | Price: ₹795

Table of Contents:

Part I Standard for Good Agricultural Practices (GAP)

Part II Establishing a national implementation system for GAP in a country

- Section 1 – Options and structure for implementing GAP in a country
- Section 2 – Guidance for establishing a Scheme Owner
- Section 3 – Rules for the use of a certification mark

Part III Certification and accreditation for GAP

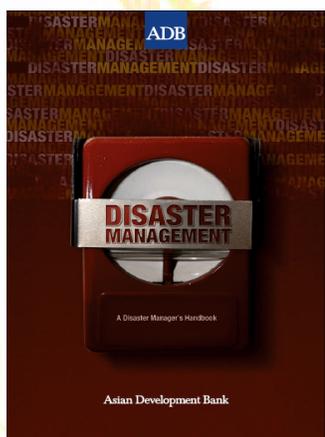
- Section 1 – Certification criteria
- Section 2 – Certification process
- Section 3 – Requirements for certification bodies (Cbs)
- Section 4 – Requirements for accreditation bodies (ABs) for GAP vehicles (UAVs).

Annexes- Documentation Needed Under the GAP Scheme

- Annex1. Producer and Producer Group Documentation
- Annex2. Scheme Owner Documentation
- Annex3. Certification Body Documentation
- Annex4. Accreditation Body Documentation

Disaster Management: A Disaster Manager's Handbook

W.Nick Carter



ISBN: 9789390749997 Pages: 416

Year: 2022 | Price: ₹3750

Table of Contents:

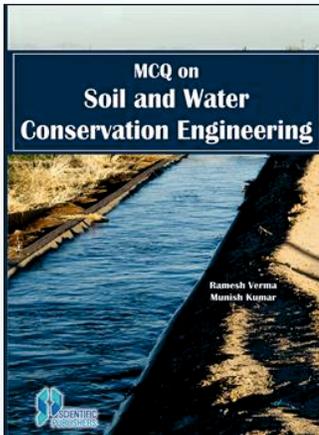
1. The Significance of Disaster
2. The Disaster Threat
3. National Disaster Management Policy
4. Major Requirements for Coping with Disaster
5. The Disaster Management Cycle
6. Disaster and National Development
7. Disaster Legislation
8. Counter-Disaster Resources
9. International Disaster Assistance
10. Leadership in Disaster
11. Organization
12. Plans
13. Use of Resources
14. Prevention
15. Mitigation
16. Preparedness
17. Response
18. Logistics
19. Post-Disaster Review
20. Training
21. Public Awareness
22. Research

APPENDIXES

- A .Vulnerability Analysis
- B .Warning and Warning Systems
- C. Survey and Assessment
- D. Examples of Disaster Legislation

MCQ on Soil and Water Conservation Engineering

Ramesh Verma | Munish Kumar



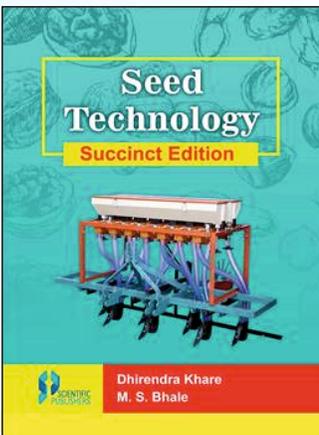
ISBN: 9789390495153 Pages:151
Year: 2021 | Price: ₹225

Table of Contents:

1. Soil Erosion	Engineering Entrance Exam Questions	Agricultural Engineering	16. Soil Erosion
2. Soil Conservation	8. Asst. Engineer Comb. Exam (RPSC) &(Agricultural Egg.)	12. Miscellaneous (Soil Conservation and Water Management)	17. Watershed Management
3. Hydrology & Open Channel Flow	Entrance Exam Questions	13. Rainfed Agriculture in India and Production Constraints	18. Various ISO term
4. Pumps and Wells	9. Ph.D. Entrance Exam Questions	14. Soil and Water Conservation in Rainfed Areas	19. Definitions
5. Soil-Plant-Water Relationships	10. Matching -S&WC Engineering	15. Soil and Land Resources	
6. Irrigation Engineering	11. Miscellaneous		
7. Soil & Water Conservation			

Seed Technology (Succinct Edition)

Dhirendra Khare | M.S. Bhale



ISBN: 9789388043588 pages:396
Year: 2021 | Price: ₹495

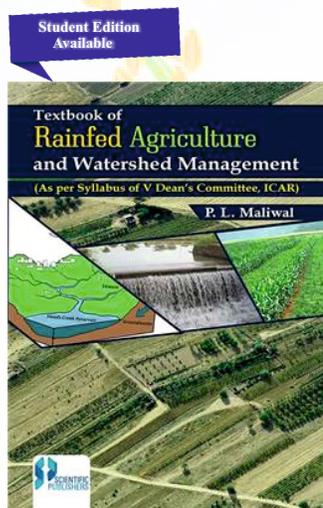
It is the succinct edition of the book entitled Seed Technology. The book was well accepted by students, teachers and personnel engaged in seed research, seed production, seed certification, seed testing, seed industry and seed commerce. With 31 years of active experience in the field of seed, the book is blended with information on seed technology in how-to-do-it manner and answer of how, when, why and where to explain the science of seed.

Table of Contents:

1. Seed Morphology	8. Production of Foundation and Certified Seed	15. Seed Treatment and Management of Seedborne Pathogens
2. Variety	9. Agronomical Principles and Considerations of Seed Production	16. Seed Drying
3. Identification, Release and Notification of Variety	10. Seed Deterioration	17. Seed Processing Plant
4. Planting Value of Seed	11. Deterioration of Variety	18. Seed Processing
5. Seed Production and Certification System in India	12. Field Inspection	19. Seed Lot
6. Maintenance Breeding	13. Maintenance of Genetic Purity	20. Sampling
7. Breeder Seed Production	14. Management of Objectionable Weeds	21. Physical Purity Analysis by Number
		22. Physical Purity Analysis by Weight

TEXTBOOK OF RAINFED AGRICULTURE AND WATERSHED MANAGEMENT(ICAR)

P. L. Maliwal



ISBN: 9789389832228
Year: 2023 | Price: ₹225

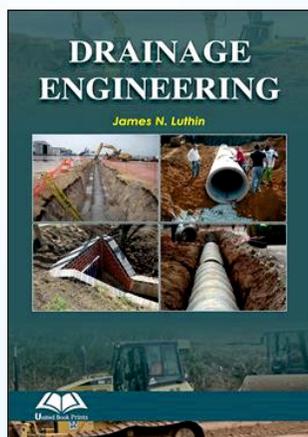
The book "Textbook of Rainfed Agriculture and Watershed Management" has been written to fulfill the requirement of undergraduate students of agriculture faculty considering the syllabus of V Dean's committee of ICAR. This book attempt to present the available information on dryland/rainfed agriculture and watershed management in a very simple, and lucid language in easily understandable manner. The book contains chapters on an introduction to rainfed agriculture, soil and climate, drought, soil and water conservation techniques, water harvesting, crop management, contingent crop planning for aberrant weather conditions and watershed management.

Table of Contents:

1. An Introduction to Rainfed Agriculture	4. Soil And Water Conservation Techniques	7. Contingent Crop Planning For Aberrant Weather Conditions
2. Soil And Climate	5. Water Harvesting	8. Watershed Management Glossary
3. Drought	6. Crop Management Practices For Rainfed Agriculture	

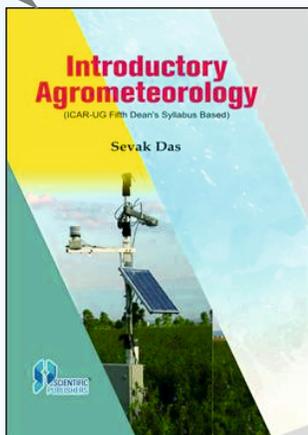
Drainage Engineering

J.N. Luthin



ISBN: 9788192686080 Pages: 250
Year: 2021 | Price: ₹1850

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pages: 302 | Price: ₹1695

Table of Contents:

- | | | |
|---|-------------------------------------|---|
| 1. Introduction | 6. Statics of Soil Water | 11. Subsurface Drains |
| 2. Hydraulics and the Measurement of Water | 7. Dynamics of Soil Water | 12. Open Ditch Drains for Controlling the Water Table |
| 3. Rainfall and Runoff | 8. Fundamentals of Seepage Analysis | 13. Drainage Wells |
| 4. Soils | 9. Measurement of Soil Permeability | 14. Surface Drainage and Tidal Reclamation |
| 5. Determining Nature and Extent of a Subsurface Drainage Problem | 10. Depth and Spacing of Drains | |

Introductory Agrometeorology

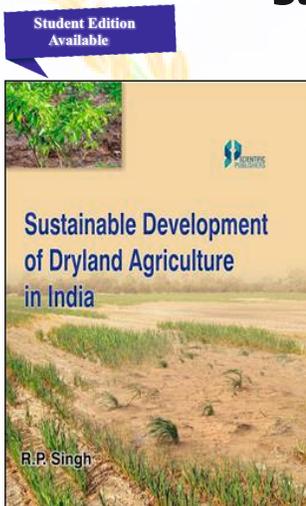
Sevak Das

Table of Contents:

- | | | |
|---|--|--|
| 1. Introduction to Agricultural Meteorology | 7. Solar Radiation and Energy Balance | 13. Climate Change and Agriculture |
| 2. Weather, Climate and Seasons | 8. Role of Weather and Climate in Crop Production | 14. Basics of Animal Climatology |
| 3. Earth's Atmosphere and its Divisions | 9. Climatic Hazards in Agriculture | 15. Remote Sensing in Agriculture |
| 4. Pressure Belts and Wind Pattern on Earth's Globe | 10. Weather Forecasting and Agro Advisory Services | 16. Electromagnetic Radiation |
| 5. Condensation and Precipitation | 11. Crop Microclimate and its Modification | 17. Agro Climatic Zones of India and Gujarat |
| 6. Mechanism of Indian Monsoon | 12. Crop Weather Simulation Modeling | 18. Agrometeorological Instrumentation |

Sustainable Development Of Dryland Agriculture In India

R.P. Singh



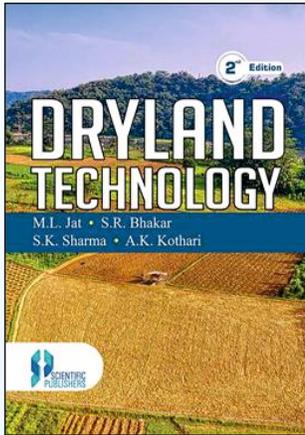
ISBN: 9788172334055 Year: 2022
pages: 544 | Price: ₹3550

Table of Contents:

- | | | | |
|--|---|--|---|
| 1. Dryland farming : Past progress and future prospects | 8. Integrated nutrient management in drylands | 16. Crop production technology | 24. Management of pasturelands |
| 2. Problems and prospects | 9. Moisture retention in soils and its availability | 17. Efficient crops and cropping systems | 25. Changing scenario of weeds and their management |
| 3. Agricultural climate | 10. Water losses and their control in rainfed agriculture | 18. Efficient management of dryland crops | 26. Principal diseases of dryland crops management |
| 4. Soil information and Soil degradation-related constraints in Indian rainfed zones | 11. Improving Water use efficiency under dryland conditions | 19. Crop management options for aberrant weather situations and agricultural drought | 27. Post-harvest technology for dryland crops |
| 5. Soil salinity in drylands Soil and water Conservation in the Indian SAT | 12. Water harvesting procedures for dryland areas | 20. Advances in oilseeds production | 28. Wastelands and their rehabilitation in India |
| 6. Soil fertility management and fertiliser use | 13. Protective irrigation (Life Saving): Principles and practices | 21. Problems, prospects and management strategies of pulse production under rainfed situations | 29. Watershed management in dryland areas. |
| 7. Agronomic aspects of plant nutrient management in rain dependent food production systems in India | 14. Tillage in drylands- Principles and practices | 22. Alternate land use systems | |
| | 15. Improved agricultural implements | 23. Agro forestry - Principles and practices | |

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Dryland Technology 2nd Edition

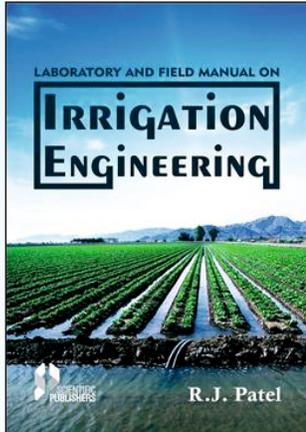
M.L. Jat | S.R. Bhakar | S.K. Sharma | A.K. Kothari

Table of Contents:

1. Introduction
2. Climatic Classification of Dryland Areas
3. Rainfall and Water Balance Analysis
4. Climate and Weather Forecasting
5. Arable Land Resources Management
6. Nonarable Land Resources Management (NALRM)
7. Water Resource Management
8. Crop Water Requirements and Irrigation Scheduling
9. Efficient Utilization of Rain Water
10. Crop Planning
11. Tillage and Sowing Implements
12. Weeding Implements
13. Plant Protection Equipments
14. Energy Utilization Pattern
15. Sources of Energy
16. Harvesting and Threshing Implements
17. Communication Facilities, Agribusiness and Resource Centre
18. Value Addition of Agricultural Products
19. Storage of Grain
20. Food and Livelihood Security of Dryland Farmers
21. Alternate Landuse Planning
22. Watershed Management and

LABORATORY AND FIELD MANUAL ON IRRIGATION ENGINEERING

R.J. Patel


 ISBN: 9789389184211 Year: 2019
 pages: 220 | Price: ₹1250

The irrigation water is considered as the essential input for crop production. Over exploitation of natural water resources has caused a menace for the future human generations. The depletion of underground water table in high productivity areas and under utilization of the water resources in rain fed areas of the country, poor irrigation efficiency and high seepage losses from conveyance system, poor land development and mismanagement of the irrigation water resources has acquired alarming proportions. As the share of water for agriculture in future is going to reduce, there will be tremendous pressure to produce more per drop of water in order to meet the food and other requirements of burgeoning population of the country. The existing irrigation water resources are not utilized judiciously and their mismanagement has lead to problems like low production efficiency, salinization, water logging and degradation of land. To manage these problems and increase the production efficiency of irrigation, it is pertinent to adopt judicious methods of irrigation water use.

Table of Contents:

1. Measurement of soil moisture content by different soil moisture measuring instruments
2. Measurement of irrigation water
3. Measurement of infiltration characteristics
4. Determination of dry bulk density, field capacity and permanent wilting point
5. Land grading methods
6. Design of underground pipeline system
7. Estimation of evapotranspiration
8. Estimation of irrigation efficiencies
9. Infiltration by inflow-outflow method
10. Evaluation of surface irrigation methods

SUSTAINABLE DRYLAND FARMING

A.M. Dhopte

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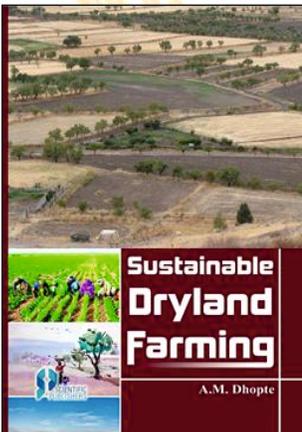
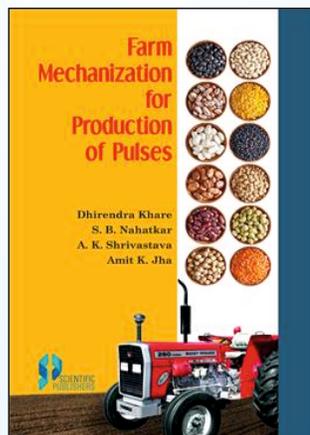

 ISBN: 9789388449908 | Year: 2020
 pages: 460 | Price: ₹2950

Table of Contents:

1. Seed Treatment for Seed Vigour and Viability in Relation to Rainfed Farming
2. Watershed Concept and Yield Optimization with Land Use Planning under Dryland Farming
3. Differential properties of Soils, Nutrient availability and their management under Semi-Arid Regions
4. Micronutrient Deficiency Problems in Maharashtra and its Corrective Measures under Dryland Farming
5. Management of Slowly Permeable Soils under Dryland Conditions
6. Organics in Rehabilitation of Degraded Lands
7. Improvement of Crop Stand under Dryland Conditions
8. Water Requirement and Irrigation Management of Semi-Arid and Arid Crops
9. Dry Farming Technology in Relation to Effective Rain Water Management.
10. Role of Plant Growth Regulators and Nutrition in Dryland Farming.
11. Crop Life Saving Measures in Dryland Agriculture
12. Targetted Yield Approach for Fertilizer Recommendations to Rainfed Crops
13. Precautions to Avoid Abiotic Stresses
14. Role of Antitranspirants in Dryland Agriculture
15. Pre-Signs of Physiological Maturity for Early Harvest
16. Suitable Medicinal and Aromatic Crop Plants for Dryland Farming
17. Drought Tolerant Crop Genotypes and strategic Approaches for Rainfed Farming
18. Applications of Remote Sensing for Dryland Agriculture
19. Amelioration of adverse effect of drought with Plant Growth Regulators and Mineral Nutrients
20. Fundamentals of basic Phosphorus nutrition - Its Various sources and availability to crops in various major Indian Soils

FARM MECHANIZATION FOR PRODUCTION

Dhirendra Khare | S.B.R. Nahatkar | A.K. Shrivastava | A.K. Jha



ISBN: 9789387893801 | Year: 2018
Pages: 240 | Price: ₹1750

Table of Contents:

- 1.Scenario of pulse production in India
- 2.Scenario of farm mechanization for production of pulses
- 3.Precision farming for production of pulses
- 4.Farm mechanization for enhancing acreage of pulses in rice based cropping system
- 5.Efficient machineries for harvesting and threshing pulse crops
- 6.Conservation agriculture based sustainable intensification practices for increasing pulse productivity in India
- 7.Role of mechanization on pulse crops in Chhattisgarh
- 8.Farm mechanization for production of pulses under rainfed situation
- 9.Tailoring new varieties of pulse crops for machine harvesting
- 10.Global scenario of chickpea improvement for suitability to mechanical harvesting
- 11.Zero tillage options for establishment of pulses in rice-based cropping system

- 12.Resource conservation technologies for maximization of pulse production
- 13.Weed management in pulses under mechanized farming
- 14.Farm mechanization for enhancing production of pulses in Vertisols
- 15.Impact of precise land leveling, establish techniques on diversification of cereal with pulse based cropping systems on yields and soil physico-chemical properties in central India
- 16.Mechanical harvesting of chickpea: agronomic interventions
- 17.Water productivity and energy efficiency increased by mechanization in pulse crops
- 18.Scaling soil fertility and productivity of pulses under rice fallows in Eastern India
- 19.Yantradoot village scheme: a successful intervention for farm mechanization
- 20.Proceedings of the workshop

INDIRA'S OBJECTIVE AGRICULTURE (2ND ED.)

(MULTIPLE CHOICE QUESTIONS (MCQ) FOR COMPETITIVE EXAMS OF : AGRICULTURE)
(ICAR-ARS/NET, JRF, SRF, IAS, IFS, PCS, SET, CSIR/UGC – NET, UPSC-CS, FCI, Ph.D./M.Sc./B.Sc. (Ag) & BANK)

R.L. Arya | Renu Arya | Sonam Arya

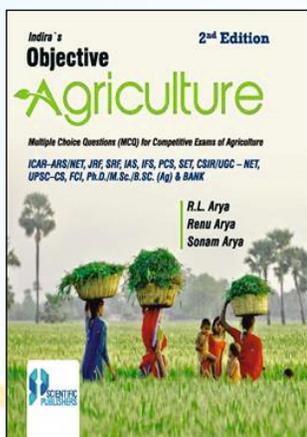
“Indira’s Objective Agriculture” for competitive exams in agriculture discipline contain 21 chapters covering all related discipline. The chapters included such as: General Agriculture, Agricultural Climatology, Genetics and Plant Breeding, Agricultural Biotechnology, Plant Physiology, Plant Biochemistry, Agricultural Microbiology, Seed Science, Agronomy, Soil Science, Entomology, Plant Pathology, Horticulture, Agricultural Extension, Agricultural Economics, Animal Husbandry and Dairying, Agricultural Statistics, Research Methodology, Agroforestry, Fish Culture/Pisciculture and appendix have been given due importance and whole syllabus was covered as per ICAR syllabus and guidelines. Each chapters contains multiple choice questions and total about 25 thousand objective questions with multiple choice have been framed and arranged sequentially for the easy understanding of the students. Recent information and development in the field of agriculture have been incorporated in the book. Thus this book is based on the syllabus for student of agricultural stream, it may be useful not only to students but also teachers, researchers, extension workers and development officers for reference and easy answering of many complicated questions.

Table of Contents:

1. General Agriculture
2. Agricultural Climatology
3. Genetics and Plant Breeding
4. Agricultural Biotechnology
5. Plant Physiology
6. Plant Biochemistry
7. Agricultural Microbiology

8. Seed Science
9. Agronomy
10. Agricultural Engineering
11. Soil Science
12. Entomology
13. Plant Pathology
14. Horticulture
15. Agricultural Extension

16. Agricultural Economics
17. Animal Husbandry and Dairying
18. Agricultural Statistics
19. Research Methodology
20. Agroforestry
21. Fish Culture/Pisciculture
22. Appendix



ISBN: 9789390495597 Year:2022
pages: 934 | Price: ₹875

DRINKING WATER QUALITY ASSESSMENT AND MANAGEMENT

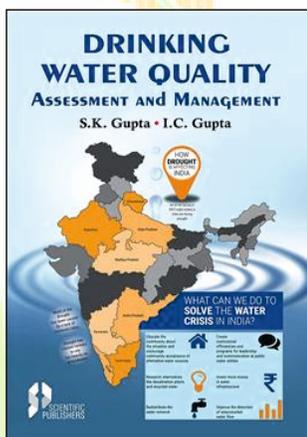
S.K. Gupta | I.C. Gupta

The current book dwells upon the water quality issues and its impact on water supply scenario in general and domestic sector in particular. The book has been divided into seven chapters namely: Water Resources: Supply and Demand; Water Pollution; Water Quality Parameters and Standards; Laboratory Analysis of Water Samples; Raw Water Treatment; Treatment of Polluted Water; and Tips for Water Conservation. The topics covered in this book are quite relevant to civil engineers in general and public health engineers in particular, environmental specialists, agricultural engineers and all those concerned with water in any manner. It should prove to be a valuable reference for field practitioners, researchers, and policy makers. The topics/chapters included in the book have direct relevance to several Government sponsored programs such as National Rural Drinking Water Programme (NRDWP) and Namami Gange Programme of the Ministry of Jal Shakti, Development and Promotion of Clean Technologies of MoEF, and Many schemes of CGWB and CPCB. It can prove to be a valuable academic asset for libraries of colleges and universities worldwide.

Table of Contents:

1. Water Resources: Supply and Demand
2. Water Pollution
3. Water Quality Parameters and Standards
4. Laboratory Analysis of Water Samples
5. Raw Water Treatment
6. Treatment of Polluted Water

7. Tips for Water Conservation
- Annexure: I to VIII
Glossary of Terms
References
Subject Index

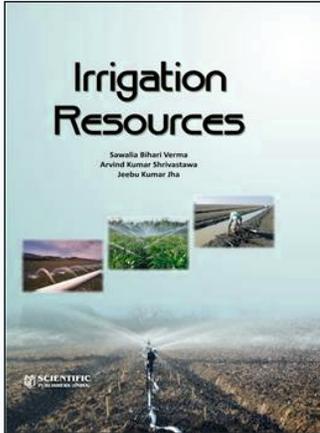


ISBN: 9789389184372 | Year: 2020
pages: 273 | Price: ₹1850

Student Edition Available

Irrigation Resources

sawalia Bihari Verman



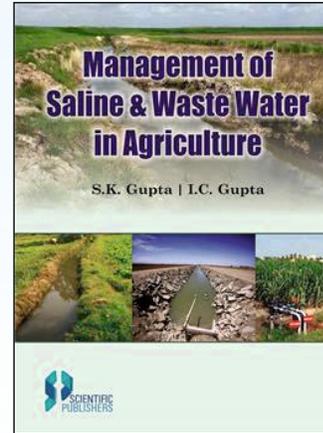
ISBN: 9788172339142 Year: 2014
pages: 429 | Price: ₹2750

Table of Contents:

- Part - A Irrigation Potential Strategies
- Part - B Strategy for Waste and Dry Land Development
- Part - C Existing Farming Systems in India
- Part - D Land Use and Interlinking of Rivers for Irrigation

Management of Saline & Waste Water In Agriculture

S.K. Gupta | I.C. Gupta

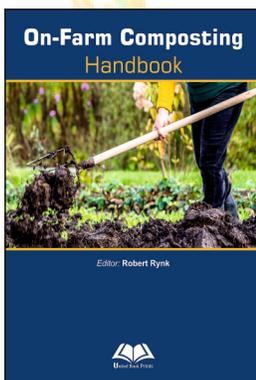


ISBN: 9788172339326 Year: 2015
pages: 316 | Price: ₹2250

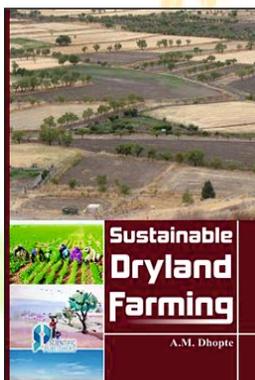
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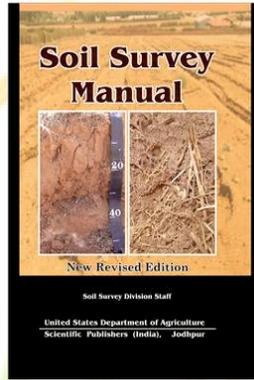
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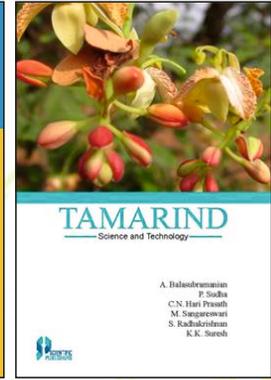
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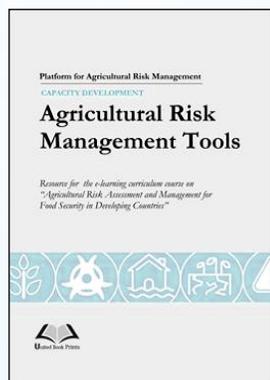


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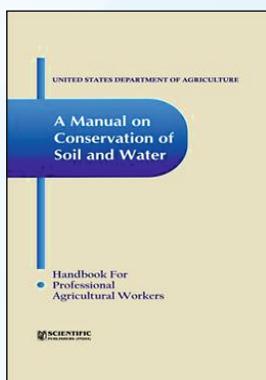


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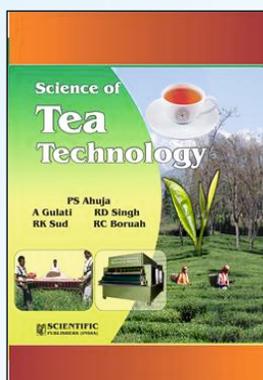
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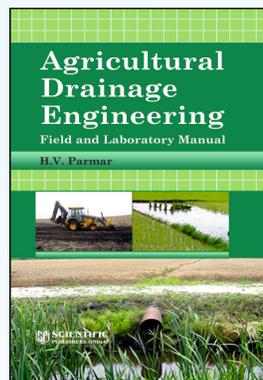
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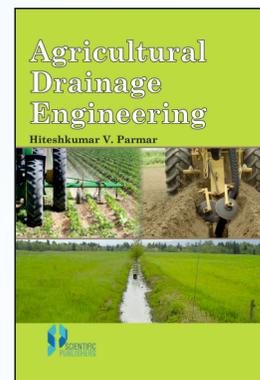
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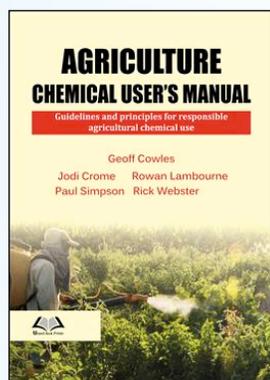
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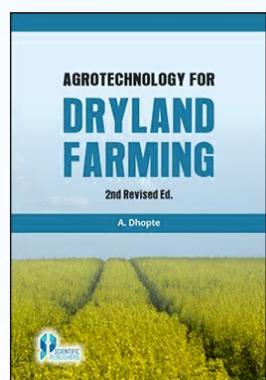
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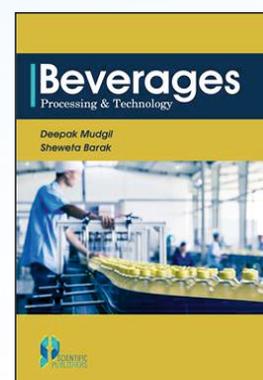
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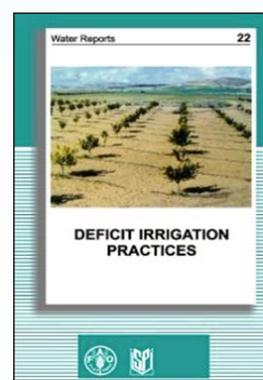
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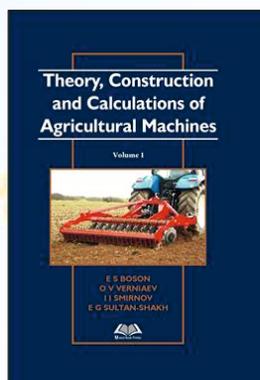
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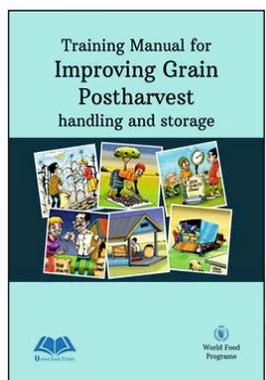
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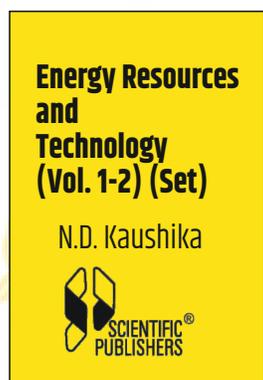
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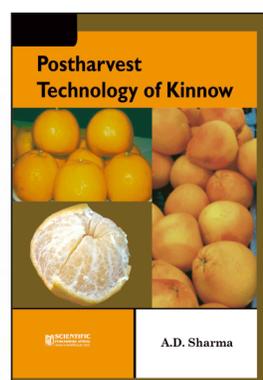
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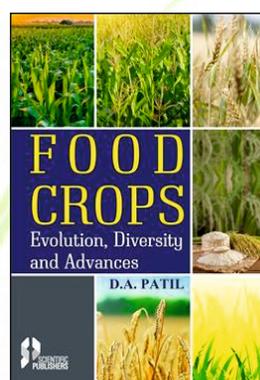
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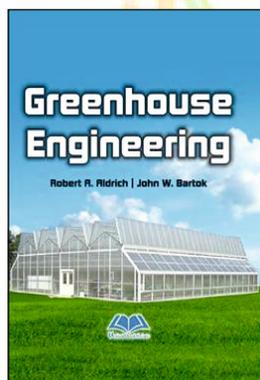
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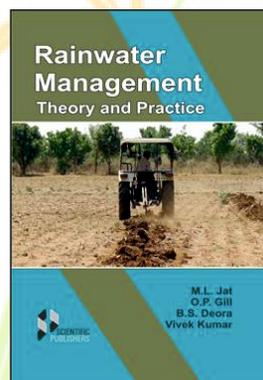
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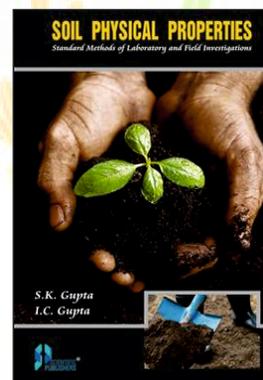
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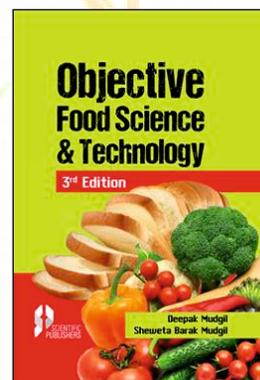
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