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Agricultural Engineering | Iowa State University Catalog

The Bachelor of Science in Agricultural Engineering is a five-year degree program that provides students with knowledge and skills on how to design agricultural machinery, agricultural equipment, and agricultural structures. They will learn to develop ways to conserve soil and water, improve the processing of agricultural products, and work in research and development, production, sales and management in the agricultural sector.

Contents :- 1. Part I - FARM POWER 1. Sources of Farm Power and Scope of Mechanization 2. Principles of Operation of Oil Engines 3. Engine System 4. Tractor Power Trains - Traction Devices Cost Analysis 5. Electricity on the farm 2. Part II - FARM MACHINERY 1. Machine Elements and Materials of Construction 2. Seedbed Preparation Machinery 3. Seeding, Harvesting and Threshing Machinery 4. Agricultural Processing and Plant Protection Machinery 5. Dairy Machinery 3. Part III - FARM BUILDING 1. Planning of Farmstead and Farm Residence 2. Animal Shelters and Building Materials 3. Storage Structures on the Farm & Villages 4. Part IV - POST HARVEST TECHNOLOGY 1. Grain Drying theory and Practice 2. Technology of Parboiling and Milling of Rice 3. Processing and Preservation of Foods & Seeds 4. Appendix 5. Index

Salient Features:- * A comprehensive and authoritative treatise on the subject authored by eminent scientists of international repute (revised and enlarged edition). * Presents latest information, concepts, technologies, and applications. * Specially suited to meet the requirements for readers in India and other developing countries. * Each topic is discussed with suitable illustrations and solved examples. Each chapter contains a list of pertinent references and a set of problems. The book covers the syllabi of subjects as taught in professional agricultural and agricultural engineering institutions at the degree level. It is a useful reference for students of Civil Engineering in professional institutions and field engineers and scientists engaged in the application of engineering procedures in agricultural production system. Candidates appearing for AMIE, Indian Forestry Service and other competitive examination will find the book extremely valuable. Contents :- * PART I - SURVEYING FOR SOIL CONSERVATION, IRRIGATION AND DRAINAGE 1. Measurement of Distances and Areas 2. Levels and Levelling 3. Topographic Surveying and Job Layout * PART II - IRRIGATION 1. Water Resources and Their Utilization 2. Irrigation Wells and Tanks 3. Water Lifts and Pumps for Irrigation 4. Measurement, Conveyance and Control of Irrigation Water on the Farm 5. Soil-Plant-Water Relationships, Land Development and Field Layout 6. Irrigation Methods * PART III - DRAINAGE 1. Field Surface Drainage 2. Subsurface Drainage * PART IV - SOIL AND WATER CONSERVATION 1. Soil Erosion Problems and Process 2. Wind Erosion and its Control 3. Field Structures and Practices to Control Erosion by Water 4. Gully Control and Ravine Reclamation 5. Permanent Structures for Soil and Water Conservation and Gully Control

Widely used in its first edition, this book introduces readers to the basic principles involved in agricultural engineering and the major problems inherent in managing land and mechanical devices--the two biggest resources in any agricultural enterprise. For a wide range of topics, the second edition examines basic principles and technical information and then presents typical problems--along with recommended solutions.

Agricultural engineering principles and practices is an exposition on a previous work titled; fundamental principles of agricultural engineering practice published by same author in 2007 which only explored aspects of principles of agricultural engineering with less emphasis on production practices engaged in at every level of agricultural operations. Thus the book gave a narrowed outlook of agricultural engineering fundamentals, which is not adequate for providing relevant information in practice with agricultural engineering background undertaking at all levels of engineering training in the university, polytechnic and colleges. Hence, the book has been enlarged in scopes and packaged in 2 volume titles (11 chapters in Volume I and 9 chapters in Volume II). Volume (I) has three parts that addresses fundamental aspects of agricultural engineering: Part 1 has six chapters comprising of agricultural engineering development, issues on agricultural mechanization, management of engineering utilities, economics of machine use, farm power and agricultural machinery and development. Part 2, in 3 chapters, addresses all aspects of site surveying, land clearing undertakings and landform development, various agricultural practices, and tillage operations. Part 3 has 2 chapters on crop planting operations and establishment practices. Various planting patterns and characteristics, equipment types and planter component descriptions are features x-rayed in this section. Chapters 10 and 11 dwells much on post planting operations involving crop thinning, fertilizer application, pest and weed control programme, and new development in chemical and fertilizer application as well as integrated pest control management. The scope of agricultural practice is inexhaustible and that informs a continual development and expansion of knowledge as advancements takes place.

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