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Agricultural engineering is the engineering of agricultural production and processing. Agricultural engineering combines the disciplines of mechanical, civil, electrical, Food science and chemical engineering principles with a knowledge of agricultural principles according to technological principles. A key goal of this discipline is to improve the efficacy and sustainability of agricultural practices.

Agricultural engineering - Wikipedia

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This book introduces the engineering application of the discrete element method (DEM), especially the simulation analysis of the typical equipment (scraper conveyor, coal silos, subsoiler) in the coal and agricultural machinery. In this book, the DEM is applied to build rigid and loose coupling model, and the kinematic effect of the bulk materials, the mechanical effect of the interaction between the bulk materials, and the mechanical equipment in the operation process of the relevant equipment are studied. On this basis, the optimization design strategy of the relevant structure is proposed. This book effectively promotes the application of DEM in engineering, analyzes the operation state, failure mechanism, and operation effect of related equipment in operation, and provides

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theoretical basis for the optimal design of equipment. The book is intended for undergraduate and graduate students who are interested in mechanical engineering, researchers investigating coal and agricultural machinery, and engineers working on designing related equipments.

The importance of economical production of agricultural materials, especially crops and animal products serving as base materials for foodstuffs, and of their technological processing (mechanical operations, storage, handling etc.) is ever-increasing. During technological processes agricultural materials may be exposed to various mechanical, thermal, electrical, optical and acoustical (e.g. ultrasonic) effects. To ensure optimal design of such processes, the interactions between biological materials and the physical effects

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acting on them, as well as the general laws governing the same, must be known. The mechanics of agricultural materials, as a scientific discipline, is still being developed, and therefore has no exact methods as yet, in many cases. However, the methods developed so far can already be utilized successfully for designing and optimizing machines and technological processes. This present work is the first attempt to summarize the calculation methods developed in the main fields of agricultural mechanics, and to indicate the material laws involved on the basis of a unified approach, with all relevant physico-mechanical properties taken into account. The book deals with material properties, gives the necessary theoretical background for description of the mechanical behaviour of these materials including modern powerful calculation methods and finally discusses a large number of experimental

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results. Many of them can only be found in this book. Special attention is paid to the unified approach concerning theory and practice. The systematic treatment of the material makes the book useful to a wide circle of designers, researchers and students in the field of agricultural engineering. The book can also be used as a textbook at technical and agricultural universities.

This volume comprises the papers from 2011 International Conference on Information Technology and Agricultural Engineering (ICITAE 2011). 2011 International Conference on Information Technology and Agricultural Engineering (ICITAE 2011) has been held in Sanya, China, December 1-2, 2011. All the papers have been peer reviewed by the selected experts. These papers represent the latest development in the field of materials

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manufacturing technology, spanning from the fundamentals to new technologies and applications. Specially, these papers cover the topics of Information Technology and Agricultural Engineering. This book provides a greatly valuable reference for researchers in the field of Information Technology and Agricultural Engineering who wish to further understand the underlying mechanisms and create innovative and practical techniques, systems and processes. It should also be particularly useful for engineers in information technology and agriculture who are responsible for the efficient and effective operations.

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

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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

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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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