

农业系统工程国内外发展水平及今后在我国开展的意见

THE PRESENT DOMESTIC AND INTERNATIONAL DEVELOPMENT OF AGRICULTURAL SYSTEM ENGINEERING TECHNOLOGY AND SUGGESTIONS FOR ITS FURTHER DEVELOPMENT IN CHINA

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中文摘要:

六十年代中期发达国家开始将系统工程应用到农业的基础研究与应用研究方面。本文概述了他们目前广泛采用系统模拟方法在作物生长、病虫害预测及管理、农业生产技术模拟、作物干燥和加工、水文学与污染、农业经济、农业灌溉、农业能源与资源管理等八个方面所取得的研究成果,文章还扼要总结了自1979至1984年间,我国各地将系统工程用于研究农业生产结构模式、水稻栽培技术规范、农业现代化综合科学试验规划,地县农业经济规划、病虫害预测预报、农机合理配备、农场规划等问题取得的成就。最后针对我国情况,提出了在农业系统工程发展方针、基础工作与培养技术人才方面的意见。

英文摘要:

This paper introduces in quite detail in 8 categories the development of agricultural systems engineering technology in developed countries. These categories are: plant growth, pest forecast and management, agricultural production technology, crop drying, hydrology and pollution, agricultural economical planning irrigation and energy and resource management. The paper also gives a simple brief of the IIASA Research Institute in Vienna. The paper next summarizes briefly the development of agricultural system engineering technology in China for the past 5 years, enumerating important research items such as: the study of agricultural production structure patterns, rice culture standardized techniques, unified planning of modernized agricultural scientific experiments, county or regional economical planning, pest forecast, rational disposition of agricultural machinery, state farm planning, etc. It also reports newly started studies of agricultural softwares. Finally, in accordance with the present situations of China the author gives constructive suggestions regarding the policy of development of agricultural system engineering in China, the establishment of basic softwares and data banks and the training of specialized personnel.

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