**Broza, A.**

## AGRICULTURAL ECONOMY AND CYBERNETICS

*(Ekonomika rolnictwa a cybernetika)*

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This interesting study is part of the author's complex concern in planning and conditions of plan fulfilment in agriculture, and starts with the utility of applying cybernetic methods in view of substantiating decisions in the problems arising in connection with the management, planning and organization in this branch of national economy.

After a brief introduction into the fundamental categories of cybernetics (system, structure, feedback) and their adaptation to the specific character of processes and relations in agricultural economy, the author makes an analysis, in cybernetic terms, of the mechanism of production ratios between agriculture and the other productive sectors (between plant and animal production, as well as between plant animal production and the food industry production), citing actual data from Poland's economy. This confers a concrete content to the study, as well as a practical checking of the models suggested.

The analysis made along these lines stresses the superiority of the cybernetic way of thinking as well as the possibility of ascertaining reciprocal relations and conditions that are difficult or impossible to find out by other means, the degree in which the systems examined can operate by selfcontrol and the necessity of man's action. The author also finds that the evolution in the structure of agriculture, which for a long time was characterized by the enrichment of inner connections, now shows a tendency to broaden its sphere of outer connections, and concludes that regulators (economic key factors), like other socio-economic mechanisms, can and should be used on a wider scale in the planning and administrative processes. Likewise, since the behaviour of the system involves a high degree of probability, it is advisable to introduce into the analysis the procedure offered by the theory of probabilities.