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INIȚIERE ÎN ORGANIZAREA ȘI PROIECTAREA SISTEMELOR DE CONDUCERE CU MIJLOACE DE AUTOMATIZARE

Initiation in the Organization and Designing of Management Systems with Automation Means

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In the present and future context of our country's development, it is urgently necessary to work out and appropriate a modern and unitary conception on the designing and organization of information systems equipped with automatic data processing devices.

The work — thus devoted to an extremely topical problem — multilaterally and thoroughly analyses the basic concepts of the information system, the methods used in the organization of data (files) and the fundamental principles lying at the basis of the designing of information systems at enterprise level.

Judiciously and systematically organized, the work comprises six chapters, the first of which being an introduction into the universe of the relations between electronic computers and the information system, an image of the evolution and prospects of the characteristics of the automatic data processing systems (ADPS).

The following chapter entitled "Methods of data organization" presents in a clear and synthetic form the various techniques of organization of files, the types of files, data coding and the control of data processing and organization.

The chapter "Representation of processing by logic diagrams" presents at a level accessible to those training in the designing of information systems and of programming, the basic elements on the symbolic representation of activities through programming and system logic diagrams.

In chapter four "Recording and identification of data in files", the authors acquaint those specializing in this field with the main methods of data recording and retrieval, with the structure of files and of processings with the aid of a designing language.

Chapter five "Description of the information systems with automatic data processing" approaches the main problems of planning which can be solved with the aid of the automatic data processing system (ADPS). This chapter illustrates the experience gained in our country in the introduction of automatic data processing systems at several enterprises.

To underline the complexity of the designing of information systems equipped with automatic data processing devices, the authors present in detail a concrete example of application of ADPS in the textile industry, in which they have directly participated.

The last chapter "Elements, stages and problems of implementation of the information systems with automatic data processing"

presents at a high level of professional and scientific competence the stages of implementation of integrated automatic data processing systems, in which the subsystems (market prospecting, production planning, supply, efficient programming, control of stocks, etc.) are gradually identified into an integrated management system with automation means.

In the authors' opinion, an information system for management must be planned for being integrated into time. Hence, the key problem of organizing a data base which should meet with this desideratum. As shown by the authors, the data base must be organized so that the data be collected once.

The data files are used in common by all applications, which can thus be gradually implemented.

This conception, adopted at the Central Institute for Management Systems with Automation Means, meets with the requirements and our conditions both at the level of the plant and especially at the level of the group.

It is a modern conception allowing the implementation of flexible systems which can be easily extended both at an operational and strategic level.

Generally, we estimate that the present work is a comprehensive and unitary, though concentrated, presentation of the most important and topical problems of the designing of information systems endowed with automation means, respectively of the topical problems concerning the organization and functioning of files, the types of information systems with exemplifications and indications for their implementation.

The book is the fruit of a long theoretical and practcal activity in the designing of information systems carried out by he authors a fact which has allowed the presentation in an original way of the necessary knowledge in the designing of information systems.

We consider that present work is a first, valuable original contribution of Romanian specialists to the designing of information systems endowed with automatic data processing means.

The work is, mainly, meant for analysts and designers of information and management systems, for production system designing engineers and for leaders of the managerial bodies of enterprises, as well as for the teaching staff and students in the field of data processing, computation technique and the organization of production.

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