

FUNDAMENTAL NUMERICAL METHODS FOR ELECTRICAL ENGINEERING

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Stormy development of electronic computation techniques (computer systems and software), observed during the last decades, has made possible automation of data processing in many important human activity areas, such as science, technology, economics and labor organization. In a broadly understood technology area, this development led to separation of specialized forms of using computers for the design and manufacturing processes, that is: " computer-aided design (CAD) " computer-aided manufacture (CAM) In order to show the role of computer in the first of the two applications mentioned above, let us consider basic stages of the design process for a standard piece of electronic system, or equipment: " formulation of requirements concerning user properties (characteristics, parameters) of the designed equipment, " elaboration of the initial, possibly general electric structure, " determination of mathematical model of the system on the basis of the adopted electric structure, " determination of basic responses (frequency- or time-domain) of the system, on the basis of previously established mathematical model, " repeated modification of the adopted diagram (changing its structure or element values) in case, when it does not satisfy the adopted requirements, " preparation of design and technological documentation, " manufacturing of model (prototype) series, according to the prepared documentation, " testing the prototype under the aspect of its electric properties, mechanical durability and sensitivity to environment conditions, " modification of prototype documentation, if necessary, and handing over the documentation to series production. The most important stages of the process under discussion are illustrated in Fig. 1. 1. xi xii Introduction Fig. 1.

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