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Secure computer systems: Mathematical foundations.

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Title : Secure Computer Systems: Mathematical Foundations

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Abstract : Set theory, Mathematical models, Computer information security, Computer privacy, Computer security, Systems theoryThe paper reports the first results of an investigation into solutions to problems of security in computer systems; it establishes the basis for rigorous investigation by providing a general descriptive model of a computer system. Borrowing basic concepts and constructs from general systems theory, the authors formed a basic result concerning security in computer systems, using precise notions of 'security' and 'compromise'. The authors also demonstrate how a change in requirements

can be reflected in the resulting mathematical model. A lengthy introductory section is included in order to bridge the gap between general systems theory and practical problem solving.

Descriptors : *COMPUTERS , *SECURITY , *SYSTEMS ANALYSIS , MATHEMATICAL MODELS , COMPUTATIONS , SET THEORY

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