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FOUNDATIONS OF SYSTEM THEORY: FINITARY ANE INFINITARY CONDITIONS

Spinger-Verlag, Berlin-Heidelberg New-York, 1976

The book presents some application of category theory to problems of system theory. Definition of classes of machines and Nerode equivalence approaches are reviewed after the outlining of some results and notions of linear system and category theories.

This theory is applied to a very important class of systems for computer science: tree automaton.

Further, a theory to be applied to adjoint processes is introduced (including also the classical examples of sequential machines and linear systems).

In the last part of the book a more general theory to be applied to tree automaton is set forth.

The theory presented in the book is richly illustrated by examples.

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