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Petri nets are used in a various fields of
science and industrial applications, such as
manufacturing systems, artificial
intelligence, robotic, security and safety,

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This book intends to bridge the gap between Petri nets, which fulfill many desirable requirements, and the systems modelling and implementation process. Petri nets are introduced from its basics and their use for modelling and verification of systems is discussed. Several application domains are selected to illustrate the method.

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A Petri net, also known as a place/transition net, is one of several mathematical modeling languages for the description of distributed systems. It is a class of discrete event dynamic system. A Petri net is a directed bipartite graph that has two types of elements, places and transitions, depicted as white circles and rectangles, respectively. A place can contain any number of tokens, depicted as black circles. A transition is enabled if all places connected to it as inputs contain at least one

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Petri net - Wikipedia

Hierarchical Petri nets reuse the well-established engineering principle of hierarchical decomposition to manage the design of large-scale systems. Sub-networks are hidden as building blocks within macro nodes, and the comprehension of the whole network builds upon the understanding of all building blocks and the interconnection of their interfaces.

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Petri net-based models have been successfully

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Verification And Applications applied to several types of systems [37–42] and allow the modeling of parallel, concurrent, asynchronous, and non-deterministic behaviors. Many tools for modeling and analysis of Petri nets are available like TimeNet, GreatSPN, SHARPE, and SPNP.

Stochastic Petri Net - an overview | ScienceDirect Topics

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Petri Nets -- Mathematical Models A Petri net is a four-tuple: $PN = \langle P, T, I, O \rangle$ P: a finite set of places, $\{p_1, p_2, \dots, p_n\}$ T: a finite set of transitions, $\{t_1, t_2, \dots, t_s\}$ I: an input function, $(T \times P) \rightarrow \{0, 1\}$ O: an output function, $(T \times P) \rightarrow \{0, 1\}$ M_0 : an initial marking, $P \rightarrow N$ $\langle P, T, I, O, M_0 \rangle$ -- a marked Petri net

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Petri Nets: Tutorial and Applications

This book presents a collection of chapters from different areas of science and engineering, where Petri Nets have been shown to be a useful tool for the design and modeling of the problems that arise in such fields.

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The book will mainly be useful to system engineers using Petri nets as a means of modeling their applications. Several tools are available to build Petri net models, to

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