



# Formal Methods for Industrial Critical Systems: A Survey of Applications

*Stefania Gnesi, Tiziana Margaria*

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Today, formal methods are widely recognized as an essential step in the design process of industrial safety-critical systems. In its more general definition, the term formal methods encompasses all notations having a precise mathematical semantics, together with their associated analysis methods, that allow description and reasoning about the behavior of a system in a formal manner.

Growing out of more than a decade of award-winning collaborative work within the European Research Consortium for Informatics and Mathematics, *Formal Methods for Industrial Critical Systems: A Survey of Applications* presents a number of mainstream formal methods currently used for designing industrial critical systems, with a focus on model checking. The purpose of the book is threefold: to reduce the effort required to learn formal methods, which has been a major drawback for their industrial dissemination; to help designers to adopt the formal methods which are most appropriate for their systems; and to offer a panel of state-of-the-art techniques and tools for analyzing critical systems.

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