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particular kind of mathematically based techniques for the
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analysis can contribute to the reliability and robustness of a
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treatment of "formal methods" will be primarily concerned with the specification of software, and directly related issues. That is, developing a precise statement of what the software is to do, while avoiding explicit (or even implicit) constraints on how it is to be done.

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...Prepared by: Sharif Omar Salem - ssalemg@gmail.com
 Formal methods are mathematical techniques for developing computer-based software and hardware systems. In computer science and software engineering, formal methods are a particular kind of mathematically-based techniques for the specification, development and verification of software and hardware systems.

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 Why formalize? Removes ambiguity and improves precision
 To verify that the requirements have been met
 To reason about the requirements/designs
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 Formal methods are system design techniques that use rigorously specified mathematical models to build software and hardware systems. In contrast to other design systems, formal methods use mathematical proof as a complement to system testing in order to ensure correct behavior.

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techniques...Programming Languages, Formal Methods, and Software ...22c181: Formal Methods in Software Engineering – p.2/33. Building Models 22c181: Formal Methods in Software Engineering – p.3/33. UML Unified Modeling Language Unified: end to many similar approaches. Booch, Rumbaugh, Jacobsson Standardised by OMG (now version 2.0 in finalisation)22c181: Formal Methods in Software Engineering Formal Methods and Software Engineering 20th International Conference on Formal Engineering Methods, ICFEM 2018, Gold Coast, QLD, Australia, November 12-16, 2018, Proceedings Formal Methods and Software Engineering | SpringerLink This book constitutes the refereed proceedings of the 19th International Conference on Formal Engineering Methods, ICFEM 2017, held in Xi'an, China, in November 2017. The 28 revised full papers presented together with one invited talk and two abstracts of invited talks were carefully reviewed and selected from 80 submissions. Formal Methods and Software Engineering - 19th ...approach is called formal methods, in which a specification notation with formal semantics, along with a deductive tool for reasoning, is used to specify, design, analyze, and implement a hardware or software system. The formal Methods Approach to Software Engineering The conference focuses on all areas related to formal engineering methods, such as verification and validation, software engineering, formal specification and modeling, software security, and software reliability. Formal Methods and Software Engineering | SpringerLink Many methods within the framework of Software Engineering have been developed to facilitate both the programming and management of these systems. Some are general rules of thumb while others are more

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