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Type theory is a fast-evolving field at the crossroads of logic, computer science and mathematics. This gentle step-by-step introduction is ideal for graduate students and researchers who need to understand the ins and outs of the mathematical machinery, the role of logical rules therein, the essential contribution of definitions and the decisive nature of well-structured proofs.

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Type theory as an all-encompassing formalism has become more and more a standard benchmark for what formalisation of logico-mathematical content really means, and the more so because it also includes the essence of what a formal proof is. Thus, type theory is a valuable expedient to transform 'correctness' into a mechanisable issue, which is of great importance, in particular in mathematical proof development and correct computer programming.

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Type Theory and Formal Proof: An Introduction - SILO.PUB

The book 'Type Theory and Formal Proof -- An Introduction' has appeared in November 2014 with Cambridge University Press. The authors are Rob Nederpelt and Herman Geuvers. A description of the book can be found in the Preface, which is a copy of the corresponding pages in the book. See also the Foreword by Henk Barendregt.

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Type Theory and Formal Proof: An Introduction: Amazon.co ...

Proof theory is a major branch of mathematical logic that represents proofs as formal mathematical objects, facilitating their analysis by mathematical techniques. Proofs are typically presented as inductively-defined data structures such as plain lists, boxed lists, or trees, which are constructed according to the axioms and rules of inference of the logical system. As such, proof theory is syntactic in nature, in contrast to model theory, which is semantic in nature. Some of the major areas of

Proof theory - Wikipedia

The language and proof concepts used by working mathematicians just didn't seem to match up with what is actually formal. One such example of the mismatch between practical proofs and formal proofs is our use of definitions and "named" theorems.

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In mathematics, logic, and computer science, a type system is a formal system in which every term has a "type" which defines its meaning and

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the operations that may be performed on it. Type theory is the academic study of type systems.. Some type theories serve as alternatives to set theory as a foundation of mathematics. Two well-known such theories are Alonzo Church's typed λ -calculus and ...

Type theory - Wikipedia

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