

# Programming in Martin-Löf's Type Theory: An Introduction (International Series of Monographs on Computer Science)

Bengt Nordstrom, Kent Petersson, Jan M. Smith

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In recent years, several formalisms for program construction have appeared. One such formalism is the type theory developed by Per Martin-Löf. Well suited as a theory for program construction, it makes possible the expression of both specifications and programs within the same formalism. Furthermore, the proof rules can be used to derive a correct program from a specification as well as to verify that a given program has a certain property. This book contains a thorough introduction to type theory, with information on polymorphic sets, subsets, monomorphic sets, and a full set of helpful examples.



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