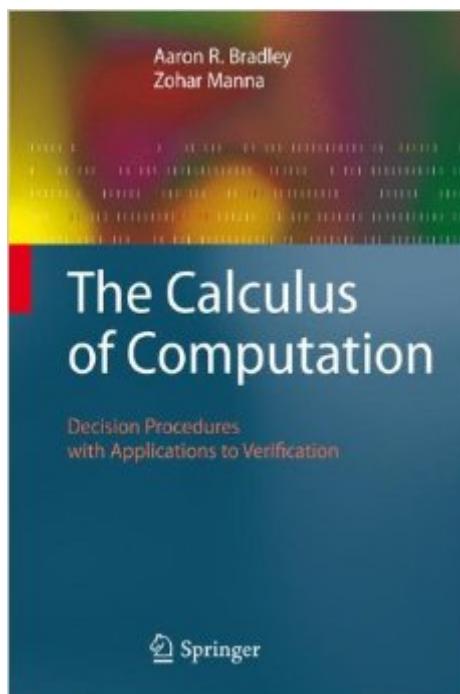


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# The Calculus Of Computation: Decision Procedures With Applications To Verification



## Synopsis

Written with graduate and advanced undergraduate students in mind, this textbook introduces computational logic from the foundations of first-order logic to state-of-the-art decision procedures for arithmetic, data structures, and combination theories. The textbook also presents a logical approach to engineering correct software. Verification exercises are given to develop the reader's facility in specifying and verifying software using logic. The treatment of verification concludes with an introduction to the static analysis of software, an important component of modern verification systems. The final chapter outlines courses of further study.

## Book Information

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## Customer Reviews

The Calculus of Computation is a cogent, readable, appropriately formal, graduate-level introduction to formal methods applied to program verification. One could view it as an updated expansion of the corresponding chapters in Manna's classic work Mathematical Theory of Computation.

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