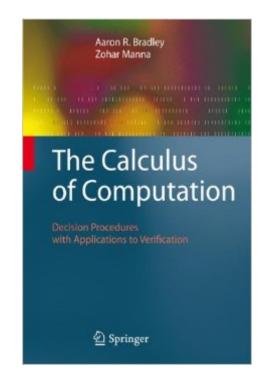
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# The Calculus Of Computation: Decision Procedures With Applications To Verification





## 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**

Paperback: 366 pages Publisher: Springer; Softcover reprint of hardcover 1st ed. 2007 edition (December 9, 2009) Language: English ISBN-10: 3642093477 ISBN-13: 978-3642093470 Product Dimensions: 6 x 0.9 x 9 inches Shipping Weight: 1.4 pounds (View shipping rates and policies) Average Customer Review: 5.0 out of 5 stars Â See all reviews (1 customer review) Best Sellers Rank: #1,803,993 in Books (See Top 100 in Books) #269 in Books > Computers & Technology > Computer Science > Al & Machine Learning > Machine Theory #293 in Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Logic #356 in Books > Textbooks > Computer Science > Algorithms

#### **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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