



# The Parametric Lambda Calculus

By Simona Ronchi Della Rocca

Springer-Verlag Berlin and Heidelberg GmbH & Co. K.  
 Paperback. Book Condition: New. Paperback. 254 pages.  
 Dimensions: 9.1in. x 6.1in. x 0.7in. The  $\lambda$ -calculus was invented by Church in the 1930s with the purpose of supplying a logical foundation for logic and mathematics. Its use by Kleene as a coding for computable functions makes it the first programming language, in an abstract sense, exactly as the Turing machine can be considered the first computer machine. The  $\lambda$ -calculus has quite a simple syntax (with just three formation rules for terms) and a simple operational semantics (with just one operation, substitution), and so it is a very basic setting for studying computation properties. The first contact between  $\lambda$ -calculus and real programming languages was in the years 1956-1960, when McCarthy developed the LISP programming language, inspired from  $\lambda$ -calculus, which is the first functional programming language, where functions are first-class citizens. But the use of  $\lambda$ -calculus as an abstract paradigm for programming languages started later as the work of three important scientists: Strachey, Landin and Böhm. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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