



Programming Languages and Operational Semantics: An Introduction (Paperback)

By M. Fernandez

Kings College Publications, United Kingdom, 2004. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. This book provides a concise introduction to the essential concepts in programming languages, using techniques from operational semantics. It is addressed to undergraduate students, as a complement to programming languages or operational semantics courses. There are three parts in the book, highlighting three major programming paradigms: - imperative languages: the main features of these languages are illustrated using Java, C, Pascal - functional languages: modern languages such as ML and Haskell are used to describe the functional style of programming - logic languages: the last part of the book gives an overview of logic programming using Prolog. After a general description of each family of languages, their semantics are studied using abstract machines and structural operational semantics. The book gives an in-depth analysis of the basic concepts in programming languages instead of a mere survey of languages, privileging the understanding of the basic techniques underlying the semantics of languages over simply describing their properties.



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