

Lambda-calculus And Combinators

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Keeping technical requirements to a minimum, this long-awaited new edition gives a modern account of combinatory logic and lambda-calculus models. Combinatory logic and lambda-calculus, originally devised in the 1920s, have since developed into linguistic tools, especially useful in programming languages. The authors' previous book served as the main reference for introductory courses on lambda-calculus for over 20 years: this long-awaited new version is thoroughly revised and offers a fully up-to-date account of the subject, with the same authoritative exposition. The grammar and basic properties of both combinatory logic and lambda-calculus are discussed, followed by an introduction to type-theory. Typed and untyped versions of the systems, and their differences, are covered. Lambda-calculus models, which lie behind much of the semantics of programming languages, are also explained in depth. The treatment is as non-technical as possible, with the main ideas emphasized and illustrated by examples. Many exercises are included, from routine to advanced, with solutions to most at the end of the book. EAN/ISBN : 9780511410963 Publisher(s): Cambridge University Press Format: ePub/PDF Author(s): Hindley, J. Roger - Seldin, Jonathan P.

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