Introduction to Languages, Machines and Logic

By Parkes, Alan P.

Book Condition: New. Publisher/Verlag: Springer, Berlin | Computable Languages, Abstract Machines and Formal Logic | This book provides an accessible introduction to three key topics within computer science: formal languages, abstract machines and formal logic. It is written in an easy-to-read, informal style and assumes only a basic knowledge of programming on the part of the reader. The approach is deliberately non-mathematical and features: - Clear explanations of formal notation and jargon - Extensive use of examples to illustrate algorithms and proofs - Pictorial representations of key concepts - Lots of end-of-chapter exercises Introduction to Languages, Machines and Logic is suitable for use on courses covering formal languages, formal logic, computability and automata theory. It will also make an excellent supplementary text for courses on algorithm complexity and compilers. | 1 Introduction.- Overview.- What This Book Is About.- What This Book Tries to Do.- What This Book Tries Not to Do.- The Exercises.- Further Reading.- Some Advice.- 1 Languages and Machines.- 2 Elements of Formal Languages.- Overview.- Alphabets.- Strings.- Functions that Apply to Strings.- Useful Notation for Describing Strings.- Formal Languages.- Methods for Defining Formal Languages.- Set Definitions of Languages.- Decision Programs for Languages.- Rules for Generating Languages.- Formal Grammars.-...

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