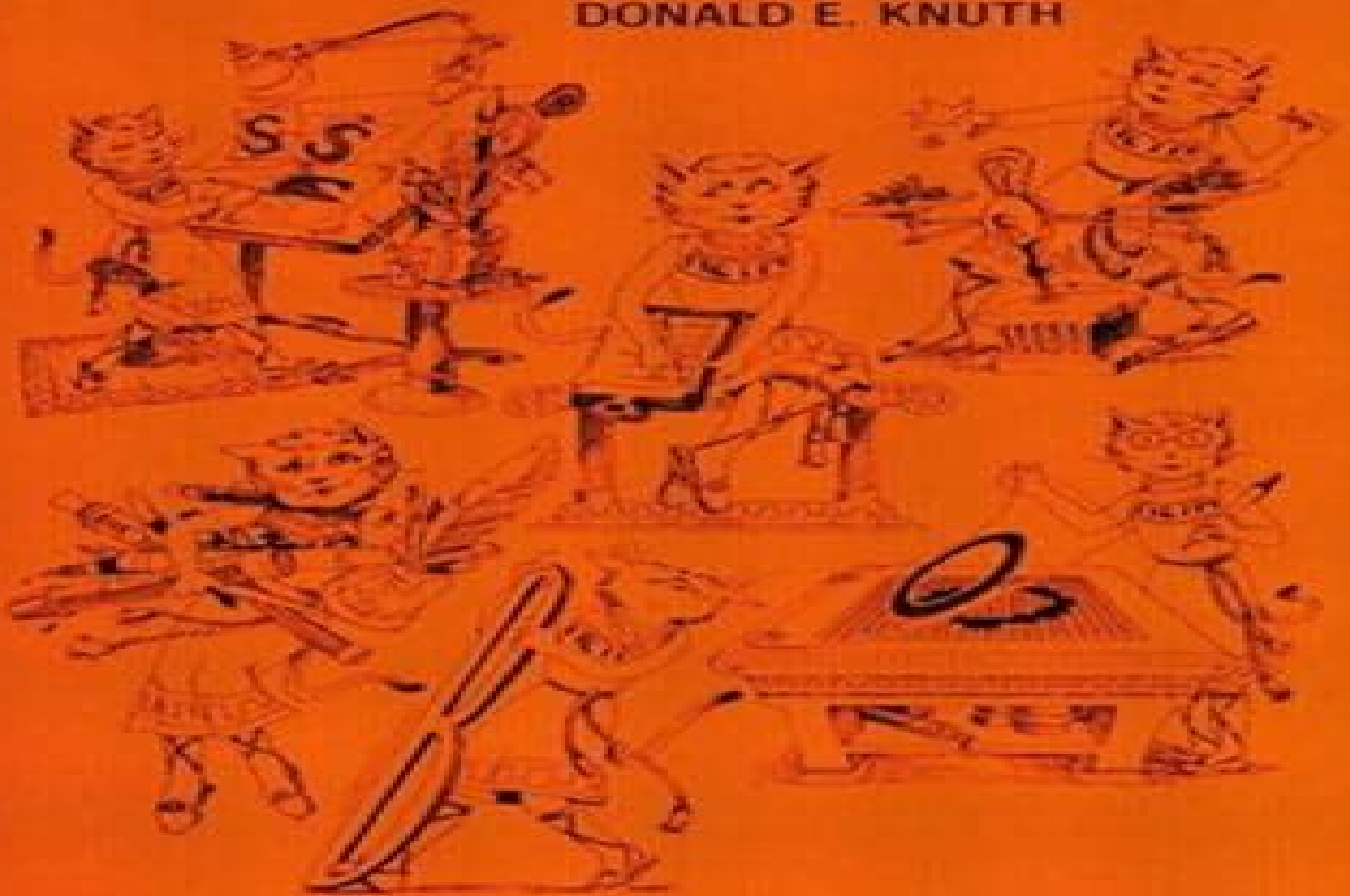


The METAFONTbook

DONALD E. KNUTH



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METAFONT Donald Ervin Knuth, 1986 The Complete Source Code and Program Listing for METAFONT Now 35 years after the first edition the leading worldwide experts on these systems have spent several months inspecting every page thoroughly We now believe that every i has been properly dotted every t has been properly crossed and every bug has been properly exterminated This volume contains the fully documented program listing for METAFONT Donald E Knuth's revolutionary typeface design language Readers interested in software development and in Knuth's programming style will find this a fascinating and instructive case study Never before has a computer program with this much size and variety been spelled out so clearly and completely Knuth presents all the algorithms and explains every detail of the METAFONT program utilizing the WEB system of structured documentation that he developed as part of his TeX research project METAFONT's new algorithms for computer graphics make this program especially interesting traditional algorithms of parsing and macro expansion are present too often with new twists This book is an excellent lesson by example on how to put programming theory into practice METAFONT The Program is the fourth in a five volume series on Computers and Typesetting all authored by Knuth This series presents the results of nearly a decade of innovative research on the problems of preparing publications of high typographic quality

TEX and METAFONT Donald Ervin Knuth, 1979

The LaTeX Companion Frank Mittelbach, Michel Goossens, Johannes Braams, David Carlisle, Chris Rowley, 2004-04-23 This is the digital version of the printed book Copyright 2004 The LaTeX Companion has long been the essential resource for anyone using LaTeX to create high quality printed documents This completely updated edition brings you all the latest information about LaTeX and the vast range of add on packages now available over 200 are covered Full of new tips and tricks for using LaTeX in both traditional and modern typesetting this book will also show you how to customize layout features to your own needs from phrases and paragraphs to headings lists and pages Inside you will find Expert advice on using LaTeX's basic formatting tools to create all types of publications from memos to encyclopedias In depth coverage of important extension packages for tabular and technical typesetting floats and captions multicolumn layouts including reference guides and discussions of the underlying typographic and TeXnical concepts Detailed techniques for generating and typesetting contents lists bibliographies indexes etc Tips and tricks for LaTeX programmers and systems support New to this edition Nearly 1 000 fully tested examples that illustrate the text and solve typographical and technical problems all ready to run An additional chapter on citations and bibliographies Expanded material on the setup and use of fonts to access a huge collection of glyphs and to typeset text from a wide range of languages and cultures Major new packages for graphics verbatim listings floats and page layout Full coverage of the latest packages for all types of documents mathematical multilingual and many more Detailed help on all error messages including those troublesome low level TeX errors Like its predecessor The LaTeX Companion Second Edition is an indispensable reference for anyone wishing to productively use LaTeX Appendix D talks about the TLC2 TeX CD

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Giants of Computing Gerard O'Regan, 2013-08-19 It has been upon the shoulders of giants that the modern world has been forged This accessible compendium presents an insight into the great minds responsible for the technology which has transformed our lives Each pioneer is introduced with a brief biography followed by a concise account of their key contributions to their discipline The selection covers a broad spread of historical and contemporary figures from theoreticians to entrepreneurs highlighting the richness of the field of computing Suitable for the general reader this concise and easy to read reference will be of interest to anyone curious about the inspiring men and women who have shaped the field of computer science

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