Using Your Home Computer

Macmillan Microcomputer Books

General Editor: Ian Birnbaum

Advanced Graphics with the BBC Model B Microcomputer

Ian O. Angell and Brian J. Jones

Assembly Language Programming for the BBC Microcomputer

Ian Birnbaum

Using Your Home Computer

Garth W. P. Davies

Also from Macmillan

Advanced Graphics with the Sinclair ZX Spectrum

Ian O. Angell and Brian J. Jones

Advanced Programming for the 16 K ZX81 Mike Costello

Beginning BASIC Peter Gosling

Continuing BASIC Peter Gosling

Practical BASIC Programming Peter Gosling

Program Your Microcomputer in BASIC Peter Gosling

Codes for Computers and Microprocessors P. Gosling and Q. Laarhoven

Microprocessors and Microcomputers – their use and programming

Eric Huggins

The Sinclair ZX81 – Programming for Real Applications

Randle Hurley

More Real Applications for the ZX81 and ZX Spectrum Randle Hurley

Z80 Assembly Language Programming for Students Roger Hutton

Digital Techniques Noel Morris

Microprocessor and Microcomputer Technology Noel Morris

**The Alien, Numbereater, and Other Programs for Personal Computers – with
notes on how they were written** John Race

Understanding Microprocessors B. S. Walker

Assembly Language Assembled – for the Sinclair ZX81 Anthony Woods

Using Your Home Computer (Practical Projects for the Micro Owner)

Garth W.P. Davies

M

MACMILLAN PRESS
LONDON

© Garth W. P. Davies 1983

All rights reserved. No part of this publication may be reproduced or transmitted, in any form or by any means, without permission

Published by
THE MACMILLAN PRESS LTD
London and Basingstoke
Companies and representatives
throughout the world

Typeset by RDL Artset Ltd, Sutton, Surrey

British Library Cataloguing in Publication Data

Davies, Garth W. P.
Using your home computer.
1. Microcomputers
I. Title
001.64'04 QA76.5

ISBN 978-0-333-35217-5 ISBN 978-1-349-06809-8 (eBook)
DOI 10.1007/978-1-349-06809-8

Contents

<i>Acknowledgements</i>	<i>vii</i>
1. Introduction	1
2. Computer Systems in the Home	3
3. The Key Steps	10
4. Some Sample Systems	16
5. Design Factors	26
6. More Sample Systems	42
7. Useful Techniques and Methods	64
8. The Pitfalls and the Fun	75
<i>Index</i>	<i>81</i>

Acknowledgements

The author would like to express his gratitude to the following persons, without whom this book would not have come into being: Pamela Stewart, for all her work in deciphering the handwriting and in typing the entire manuscript in its several versions; Christiane Scott for her invaluable help in preparing the illustrations; Peter Gosling and Ian Birnbaum for their very helpful comments on the various drafts; my sons, Rolf and Mark, and my wife, Ellen, for being enthusiastic users of a home computer — which led to this book!