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Engineering Hydrology

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FOURTH EDITION

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First edition 1969

Second edition 1974

Reprinted 1975, 1977, 1978, 1979, 1980, 1981 (twice), 1982

Third edition 1983

Reprinted 1984, 1985, 1987

Fourth edition 1990, 2009

Reprinted 2010, 2011 (twice)

Published by

RED GLOBE PRESS

Red Globe Press in the UK is an imprint of Springer Nature Limited, registered in England, company number 785998, of 4 Crinan Street, London, N1 9XW.

Red Globe Press® is a registered trademark in the United States, the United Kingdom, Europe and other countries.

ISBN 978–0–333–51717–8

ISBN 978–1–349–20610–0 (eBook)

This book is printed on paper suitable for recycling and made from fully managed and sustained forest sources. Logging, pulping and manufacturing processes are expected to conform to the environmental regulations of the country of origin.

A catalogue record for this book is available from the British Library.

A catalog record for this book is available from the Library of Congress.

Contents

<i>Preface to the Fourth Edition</i>	<i>ix</i>
<i>Note on 'Solutions' booklet</i>	<i>xii</i>
<i>Acknowledgements</i>	<i>x</i>
1 Introduction	1
1.1 Allied sciences	1
1.2 The hydrological cycle	1
1.3 Inventory of Earth's water	3
1.4 Hydrology as applied in engineering	3
2 Meteorological Data	5
2.1 Weather and climate	5
2.2 Humidity	6
2.3 Temperature	8
2.4 Radiation	9
2.5 Wind	9
2.6 Precipitation	10
2.7 Forms of precipitation other than rain	15
2.8 The extension and interpretation of data	15
2.9 The meteorological section of the Flood Studies Report (1975)	27
2.10 Probable maximum precipitation (PMP)	34
References	37
Problems	38
3 Evaporation and Transpiration	42
3.1 Meteorological factors	42
3.2 Transpiration	43
3.3 Methods of estimating evaporation	44
3.4 Evaporation from land surfaces using Penman's E_0 value	51
3.5 Thornthwaite's formulae for evapotranspiration	51

3.6	Direct measurement of evaporation by pans	54
3.7	Consumptive use	55
	References	62
	Problems	63
4	Infiltration and Percolation	66
4.1	Infiltration capacity of soil	66
4.2	Factors influencing f_c	66
4.3	Methods of determining infiltration capacity	69
4.4	Soil moisture	72
	References	80
	Problems	81
5	Groundwater	83
5.1	The occurrence of groundwater	83
5.2	Factors of influence	84
5.3	Groundwater flow	88
5.4	The abstraction of groundwater	94
5.5	The yield of wells	96
5.6	Test pumping analysis	105
	References	109
	Problems	109
6	Surface Runoff	111
6.1	The engineering problem	111
6.2	Catchment characteristics and their effects on runoff	112
6.3	Climatic factors	117
6.4	Rainfall/runoff correlation	119
6.5	Flow rating curves: their determination, adjustment and extension	120
6.6	Volume and duration of runoff	136
6.7	Estimation of mean flow, Q_m	141
	References	143
	Problems	145
7	Hydrograph Analysis	150
7.1	Components of a natural hydrograph	150
7.2	The contribution of baseflow to stream discharge	151
7.3	Separation of baseflow and runoff	153
7.4	Evaluation of baseflow	157
7.5	The unit hydrograph	158
7.6	Unit hydrographs of various durations	160
7.7	The unit hydrograph as a percentage distribution	163
7.8	Derivation of the unit hydrograph	165

Contents	vii
7.9 Unit hydrographs from complex or multi-period storms	165
7.10 The instantaneous unit hydrograph	173
7.11 Synthetic unit hydrographs	174
7.12 Synthetic unit hydrographs from catchment characteristics by the FSR method	179
7.13 The application of rain to unit hydrographs	186
References	190
Problems	191
 8 Flood Routing	 198
8.1 Introduction	198
8.2 The storage equation	198
8.3 Reservoir routing	200
8.4 Routing in a river channel	203
8.5 Graphical routing methods	211
8.6 Synthetic unitgraphs from flood routing	213
References	220
Problems	220
 9 Hydrological Forecasting	 225
9.1 Introduction	225
9.2 Flood formulae	226
9.3 Frequency analysis	228
9.4 The FSR method of predicting $\bar{Q}$ and Q_T for an ungauged catchment	244
9.5 Synthetic data generation	248
9.6 The cyclical nature of hydrological phenomena	249
References	250
Problems	252
 10 Urban Hydrology	 261
10.1 Introduction	261
10.2 The use of the Rational Method	261
10.3 Hydrograph methods	265
References	266
 11 International Flood Frequency Growth Curves	 268
11.1 World Flood Studies	268
11.2 General conclusions	273
References	273
 12 Design Criteria	 274
12.1 Risk analysis	274

12.2 Choice of design return period by consideration of design life and probability of encountering design flow during this life	275
12.3 Choice of a design value of a rare event	276
References	276
<i>Appendix A.</i> Rainfall and soil characteristics of the British Isles	278
<i>Appendix B.</i> Typical values of Manning's n and Chezy's C	339
<i>Answers to Problems</i>	340
<i>Index</i>	343
<i>Appendix C.</i> Nomogram for determining evaporation E_0 from a free water surface according to the Penman equation	Inside back cover

Preface to the Fourth Edition

This fourth edition, like its three predecessors, is written for engineering students and junior engineers; to introduce them to the principles and practice of engineering hydrology and to show, through many worked examples, how to approach the many apparently intractable problems which hydraulic engineers meet.

The last decade has been a time of considerable activity in the subject, following the publication of the *Flood Studies Report* by the Institute of Hydrology. Examples of this on-going work include: advances in urban hydrology, published as *The Wallingford Procedure*; the *Low Flow Studies*, the *Flood Studies Supplementary Reports* and the *World Flood Study* from IOH; and the *Manual for Estimation of Probable Maximum Precipitation* from the World Meteorological Organisation.

Short descriptions of some of these subjects have been included in this edition to encourage deeper study of the original texts. The opportunity has been taken of enlarging the lists of problems, re-organising several chapters, updating references and including relevant new material.

I continue to receive and much appreciate comments, corrections and advice from correspondents around the world, to whom I am grateful.

Manchester, 1989.

E. M. Wilson

Acknowledgements

Permission to publish copyright material is gratefully acknowledged as follows.

From the Director, the Institute of Hydrology, Wallingford, United Kingdom
Tables 2.6, 2.7, 2.8, 2.9, 2.11, 4.2 and 6.1

Figures 2.7, 2.17, 4.9, 4.10, 6.21, 6.24, 7.28, 9.7, 9.8, 11.1, 11.2, 11.3 and 11.4

From the Controller, Her Majesty's Stationery Office

Appendix A: SAAR, 2DM5, r and RP maps for the United Kingdom

Figures 2.6, 2.13 and 4.8

From the Soil Survey of England and Wales, the Macauley Institute for Soil Research, the National Soil Survey of Ireland and Mr B. S. Kear

Appendix A: RP maps for England and Wales, Scotland, Ireland and the Isle of Man respectively

From the Director, Irish Meteorological Service

Appendix A: SAAR, 2DM5 and r maps of the Republic of Ireland

From the Director, Ghana Meteorological Service

Figure 2.8

From the Institution of Civil Engineers

Figures 7.25, 7.26 and 7.27

From Professor L. Huisman, Delft University

Figure 5.11

From Mr P. J. Rijkoort, Royal Meteorological Institute, The Netherlands

Appendix C: Nomogram for Penman's equation

From the Cambridge University Press

Table 3.1

Acknowledgements

xi

From the American Geographical Society, New York
Figure 3.2

From the McGraw-Hill Book Company
Figure 4.7

From Dr I. G. Littlewood
Figures 6.13 and 6.14

From the American Water Works Association
Figure 2.18

From the Director, Transport and Road Research Laboratory
Tables 10.1 and 10.2
Figure 10.1

From the Director General, U.N. Food and Agriculture Organisation
Tables 3.2, 3.3 and 3.4
Figure 3.4

Grateful acknowledgement of assistance and information is also made to
Mr B. J. Greenfield of Thames Water Authority
Dr Frank Farquharson, Dr I. G. Littlewood and Dr A. Gustard, all of the
Institute of Hydrology
The Meteorological Office Advisory Services
Messrs Boode B. V., Zevenhuizen, The Netherlands for Figure 5.9
Mrs Margaret Pearson, University of Salford

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