An Engineering Data Book

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Edited by
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© Dr J. R. Calvert, Professor R. A. Farrar, University of Southampton 1999

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Preface

Learning formulae is the bugbear of the student, and many avoidable errors, both in education and professional practice, have been made through the incorrect recall of formulae or numbers. This booklet aims to provide a ready reference for commonly required formulae and data, for use in coursework and examinations (where permitted) and in professional practice. It is not a textbook – the user is expected to know when to use a particular formula, and just as important, when not to use it.

The units used are SI, or multiples, with conversion factors from other systems provided. The symbols are generally those in common use in particular specialities, except where this would cause confusion in context in a particular section of the book. A complete list of symbols, with meaning and units, is included.

This edition is an extended and revised version of that edited by AJ Munday and RA Farrar, published in 1979 in collaboration with The Macmillan Press Ltd, itself based on an internal publication of the Department of Mechanical Engineering, University of Southampton.

Data have been collected from a large variety of sources, and the editors are grateful to many colleagues, past and present, for their contributions and suggestions.

The editors have made every effort to ensure the accuracy of this data, but cannot guarantee it. No responsibility can be taken for the consequences of any errors which may remain. Any person finding an error is asked to inform the publishers.