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FOUNDATION SCIENCE FOR ENGINEERS

Keith L. Watson

Second Edition

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PREFACE

This second edition includes five new topics: Topic 15 deals with the nucleus, and Topics 22–25, together with a selection of descriptive questions, extend the materials content into the first year degree and diploma context. An appendix on calculation technique has been included for the benefit of readers who wish to improve their confidence and fluency in solving numerical problems.

The same general approach has been adopted with the new material as with the first edition, with emphasis on clarity and crispness of presentation. Again, the data supplied are approximate and for illustrative purposes only, and practical work has not been included. The inclusion of safe and effective laboratory exercises over the whole range of topics covered by the book would have made it too long – furthermore, the needs of individual courses and the resources of individual institutions tend to determine their particular selection of practical work.

I am indebted to colleagues here at Portsmouth for their advice and comments on the new material, particularly Michael Devane, Dr. Simonne Mason and Dr John Tsibouklis; also to Elizabeth Brookfield of Coventry University and to Mary Stewart and Dr Tony Smith of Loughborough University, who reviewed the material and made many useful suggestions. I would like to thank Malcolm Stewart and his colleagues at Macmillan Press Ltd for their valuable support.

Portsmouth, 1998

KLW