

An Engineering Data Book

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this text features 96 pages of symbols formulae equations numbers graphs and tables for the student or professional engineer

intended for practicing mechanical engineers this reference reviews basic engineering mathematics units of measure and conversion mechanical tolerances mechanics material failure limits thermodynamics machine components production tools and welding processes

the objective of this pocketbook is to provide a concise and useful source of up to date information for the student or practising engineer

this greatly expanded second edition of this popular and handy reference book includes over 100 new pages including extensive coverage of section viii of the asme pressure vessel code divided into 22 sections this pocket sized volume is an exhaustive quick reference of up to date engineering data and rules it includes essential mathematics units engineering design processes and principles basic mechanical design motion mechanics of materials material failure thermodynamics fluid mechanics fluid equipment vessel codes and standards materials machine elements design and production tools project engineering computer aided engineering welding non destructive examination corrosion surface protection metallurgical terms and engineering associations and organizations

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this book brings together information which is used by engineers and needed especially by students of engineering but difficult to find in a collected form in this respect engineering perhaps because it is more often divided into separate branches has so far been less well served than the other physical sciences we hope to have in part redressed the balance the contents are designed chiefly for engineering students of all kinds in universities and colleges but they should also prove useful to practising engineers as a general reference there was some difficulty in choosing numerical values for parts of the section properties of matter information was culled from a range of sources which sometimes show an alarming lack of consistency given a choice we have used values which are either average or more likely to be reliable the degree of tolerance required varies very widely between for example the precision to which thermodynamic properties of steam are known and the uncertainty in those mechanical properties of solids which depend strongly on quality and preparation the tables on pages 4 12 inclusive are reproduced from s m p advanced tables by permission of cambridge university press the tables on pages 35 and 36 are reproduced from elementary statistical tables lindley and miller h permission of cambridge university press the tables on pages 37 and 38 are reproduced by permission of the biometrika

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