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the book has been thoroughly revised several new articles have been added specifically in chapters in mortar concrete paint varnishes distempers and antitermite treatment to make the book to still more comprehensive and a useful unit for the students preparing for the examination in the subject

we take an opportunity to present material science to the students of a m i e i diploma stream in particular and other engineering students in general the object of this book is to present the subject matter in a most concise compact to the point and lucid manner while preparing the book we have constantly kept in mind the requirements of a m i e i students regarding the latest trend of their examination to make it really useful for the a m i e i students the solutions of their complete examination has been written in an easy style with full detail and illustrations

this treatise on engineering materials and metallurgy contains comprehensive treatment of the matter in simple lucid and direct language and envelopes a large number of figures which reinforce the text in the most efficient and effective way the book comprises five chapters excluding basic concepts in all and fully and exhaustively covers the syllabus in the above mentioned subject of 4th semester mechanical production automobile engineering and 2nd semester mechanical disciplines of Anna University

material science and metallurgy is presented in a user friendly language and the diagrams give a clear view and concept solved problems multiple choice questions and review questions are also integral part of the book the contents of the book are

the science and engineering of materials third edition continues the general theme of the earlier editions in providing an understanding of the relationship between structure processing and properties of materials this text is intended for use by students of engineering rather than materials at first degree level who have completed prerequisites in chemistry physics and mathematics the author assumes these students will have had little or no exposure to engineering sciences such as statics dynamics and mechanics the material presented here admittedly cannot and should not be covered in a one semester course by selecting the appropriate topics however the instructor can emphasise metals provide a general overview of materials concentrate on mechanical behaviour or focus on physical properties additionally the text provides the student with a useful reference for accompanying courses in manufacturing design or materials selection in an introductory survey text such as this complex and comprehensive design problems cannot be realistically introduced because materials design and selection rely on many factors that come later in

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