<<工程材料的选择和使用>>

图书基本信息

书名：<<工程材料的选择和使用>>

13位ISBN编号：9787506247337

10位ISBN编号：750624733X

出版时间：1970-1

出版时间：世界图书出版公司北京

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内容概要

《工程材料的选择和使用(英文版)(第3版)》内容简介：The continuing success of this book has required reprints of the second edition, and now a third edition. In its preparation great attention has been paid to the invaluable comments made by reviewers and users of the earlier editions. The continuing development of design engineering, the growing importance of plastics, ceramics and composite materials, has required additional text and rewriting in many chapters. Also, since the second edition, there has been a marked growth in the availability of materials databases and in computerized materials selectors. Thus Chapter 14, on the formalization of selection procedures, has been substantially modified to take account of this. Other new features are the explanation of the Weibull modulus in describing the variability of strength to be expected in a material, materials for springs and the influence of hydrogen on the performance of steels and the relevance to sour gas service in the petroleum industry.

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章节摘录

版权页：插图：A major factor in this area will be the quality ofmaintenance during use, for example,lubricahonor the renewal of corrosion protection where thishas been speafied or the adherence to instruc-tions concerning component replacement. Ander-son,2 quoting Holshouser and Mayner,3 instancesthe analysis of 230 laboratory reports on failedaircraft components where, in spite of the highstandard set by airline companies,102 could beattributed to improper maintenance（mostly tak-ing the form of undesirable changes in geometrysuch as nicks and gouges）, 52 of these occumng asa result of a fatigue mechanism.In the identification of a cause of failure, so thatinformation can be fed back to design or manu-facturing control stages, it is, of course, firstnecessary to recognize the failure mecharusmand any relationship with the structure, compo-sihonal characterisXcs or design of the materialcomponent which may be revealed.

编辑推荐

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