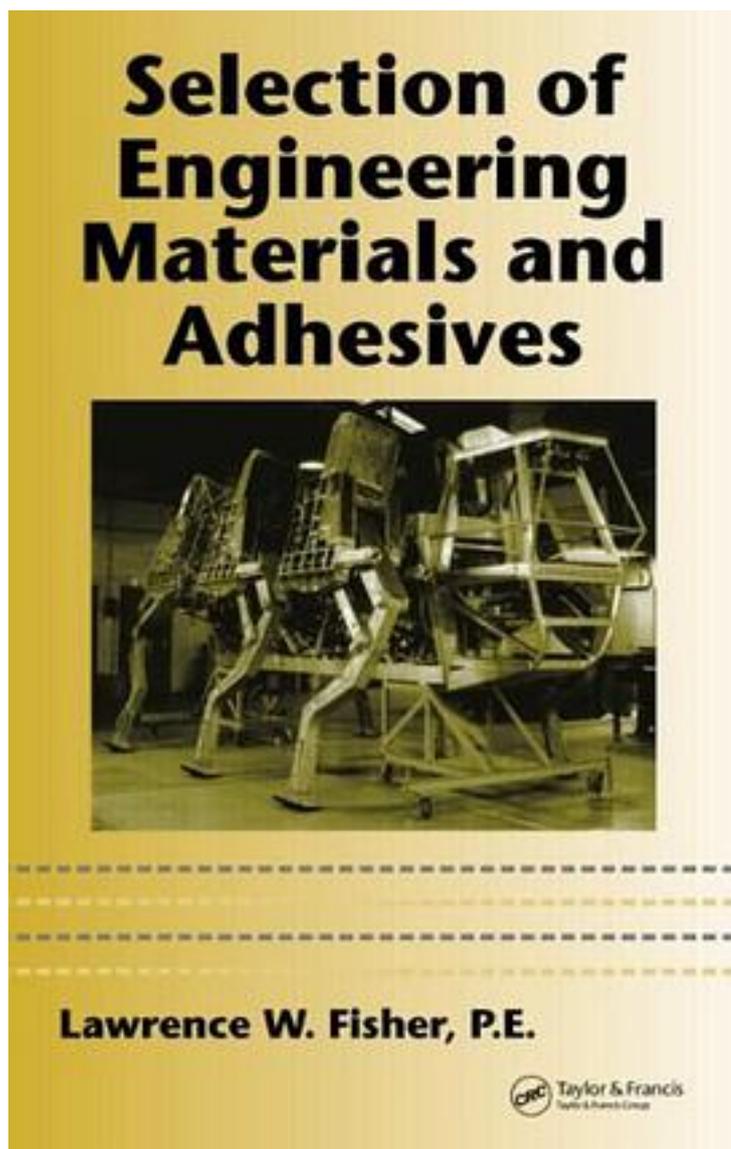


Selection of Engineering Materials and Adhesives



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Insufficient knowledge, time limitations, and budget constraints often result in poor material selection and implementation, which can lead to uncertain performance and premature failure of mechanical and electro-mechanical products. "Selection of Engineering Materials and Adhesives" is a professional guide to choosing the most appropriate materials and adhesives for product development applications from the onset. This text emphasizes material properties and classifications, fabrication and processing considerations, performance objectives, and selection based on specific application requirements, such as frequency of use (duty cycle) and operating environment. Each chapter focuses on a particular material family, covering ferrous and non-ferrous metals, including steels, cast-iron, aluminum, and titanium, as well as plastics such as PVC, acrylics, and nylons. Unique to this book on material selection, the final chapter discusses critical aspects of adhesives, including cure methods and joint configurations. "Selection of Engineering Materials and Adhesives" presents materials that are most often used for selection processes and applications in product development. This book is an ideal text for senior level undergraduate or graduate courses in mechanical engineering and materials science as well as recent graduates or managers who are tasked with the daunting job of selecting a material for a new application or justifying a long-used material in a specific application. It embodies the author's own experience and lectures on this subject, taught at UCLA Extension, and provides students as well as practicing engineers the tools to systematically select the most appropriate materials and adhesives for their design work.

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