

Material Science Engineering 8th Edition

William D Callister

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an outstanding text reflecting the latest developments in the field this edition contains a new chapter titled case studies in materials selection which includes five different examples a cantilever beam an automobile valve spring the artificial hip the space shuttle s thermal protection system and packaging for integrated circuits relative to materials employed and the rationale behind their use these case studies are comprehensive in coverage and feature numerous engineering disciplines new material on novel diamond thin films and the recently discovered carbon fullerenes plus a discussion of the hall effect have been added

bill callister continues his dedication to student understanding by writing in a clear and concise manner using terminology that is familiar and not beyond student comprehension topics are organized and explained in an approachable manner so that even instructors who do not have a strong materials background i e those from mechanical civil chemical or electrical engineering or chemistry departments can teach from this already successful text

callister and rethwisch s fundamentals of materials science and engineering third edition continues to take the integrated approach to the organization of topics that is one specific structure characteristic or property type at a time is discussed for all three basic material types viz metals ceramics and polymeric materials this order of presentation allows for the early introduction of non metals and supports the engineer s role in choosing materials based upon their characteristics

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