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Materials aims to  
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and structure, and  
and structure, and  
to provide a  
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upon which to  
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extrapolate when  
extrapolate when  
conditions or  
conditions or  
materials outside  
materials outside  
previous  
previous  
experience arise.



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The present text refers primarily to metals and alloys, other (non-crystalline) solids are treated rather less fully.

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materials deform  
when bearing  
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To answer this  
crucial question,  
the book bridges  
the gap between  
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of material  
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deformation  
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(elasticity,  
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plasticity, fracture,  
creep, fatigue) are  
explained in detail.  
The book also  
discusses the  
physical processes  
occurring during  
the deformation of

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all classes of  
engineering  
materials (metals,  
ceramics,  
polymers, and  
composites) and  
shows how these  
materials can be  
strengthened to  
meet the design  
requirements.

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