



# MATERIALS SCIENCE AND ENGINEERING: A

Structural Materials: Properties, Microstructure and Processing

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Materials Scientists, Metallurgists, Mechanical Engineers, Ceramists

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### **Keywords**

The keywords for *Materials Science and Engineering A* are separated into four categories:

#### **A. METHOD OF INVESTIGATION**

#### **B. MATERIAL OR CONSTITUTING PHASE(S)**

#### **C. PROCESSING METHOD**

#### **D. INVESTIGATED PHENOMENON**

##### **meth A. METHOD OF INVESTIGATION**

atomprobe FIM  
dilatometry  
EBSD  
electron microscopy  
finite element method  
hardness measurement  
light microscopy  
mechanical characterization  
microanalysis  
micromechanics  
nanoindentation  
neutron scattering  
strain measurement  
synchrotron X-ray diffraction  
tomography  
X-ray diffraction

##### **mat B. MATERIAL OR CONSTITUTING PHASE(S)**

aluminium alloys  
austenite  
bainite  
bulk amorphous alloys  
cellular materials  
ceramics  
composites  
ferrous alloy  
glass  
intermetallics  
magnesium alloys  
martensite  
nanostructured materials  
nickel based superalloys  
non-ferrous alloys  
polymers  
porous materials  
shape memory alloys  
steel  
titanium alloys

##### **proc C. PROCESSING METHOD**

bonding

brazing  
bulk deformation  
casting  
equal channel angular processing  
mechanical alloying  
powder metallurgy  
rapid solidification  
self-propagating synthesis  
semisolid processing  
sheet forming  
sintering  
soldering  
thermomechanical processing  
welding

phen **D. INVESTIGATED PHENOMENON**

age hardening  
aging  
coarsening  
crystal plasticity  
dislocations  
failure  
fatigue  
fracture  
grain boundaries  
grain growth  
grain refinement  
hardening  
hydrogen embrittlement  
interfaces  
internal friction  
martensitic transformations  
nucleation  
ordering  
orientation relationships  
oxidation  
phase transformation  
plasticity  
precipitation  
recrystallization  
residual stresses  
shape memory  
shear bands  
spinodal decomposition  
superplasticity  
twinning  
wear

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