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Elements in Elasticity  
Fundamentals of  
theory ... biology,  
chemistry,  
engineering, physics,  
etc.. Emphasis shall

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be on the Dyadic  
representation of  
scalar, vector and  
tensor fields, data ...

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CSE Core Courses

Tissue engineering approaches often use scaffolds designed to match the properties of mature bone.

However, natural fracture healing is

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most efficient when it  
recapitulates  
development,  
forming bone ...

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Recapitulating bone  
development  
through engineered  
mesenchymal  
condensations and  
mechanical cues for  
tissue regeneration

1 Department of

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Macromolecular  
Science and  
Engineering, Kyoto  
Institute of  
Technology ...

extensibility and very  
low elastic modulus  
that originate from  
the entropic elasticity  
of polymer chains  
(1–3) ...

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Probing the in-plane

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Liquid-like behavior  
of liquid crystal  
elastomers

Developments and  
Novel Approaches in  
Biomechanics and  
Metamaterials ...

Characterization of  
the symmetry class of  
an elasticity tensor  
using polynomial  
covariants.

Mathematics and  
Mechanics of Solids,



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...  
Engineering

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Discrete and  
Continuum Models  
for Complex  
Metamaterials  
Covering the entire  
sequence of  
mathematical topics  
needed by the  
majority of university  
programs, this book  
uses computer

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Programs in almost every chapter to demonstrate the mathematical concepts...

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Chapter 17:  
Applications of  
Partial Differential  
Equations  
Hengyong Yu\*;  
Tensor based  
adaptive dictionary

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Learning for dynamic  
computed  
tomography  
reconstruction;

Physics in Medicine  
and Biology,

60(7):2803-2818,

2015. Huihua Kong  
and Hengyong Yu\*;

Analytic ...

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Peer Review Journal  
Papers

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College of Dyadic  
Shipbuilding  
Engineering, Harbin  
Engineering  
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University. It is shown that the dispersion relations for elastic ice approach the dispersion relations for rigid ice as the rigidity of ice ...

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Flexural-gravity  
waves in ice channel  
with a lead

An introduction to  
the properties of  
engineering  
materials that  
emphasizes the  
correlation ... like and  
liquid-like  
multicomponent  
materials are  
explored.

Computational

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approaches covered  
in the class ...

Engineering

Approaches

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Materials Science and  
Engineering

Here, we propose a  
far simpler approach  
of entirely  
externalizing the soft  
phase ... attracted  
them in many  
biomedical  
applications such as

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bone substitutes,  
tissue engineering  
scaffolds, dentals, ...

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Damage-tolerant 3D-  
printed ceramics via  
conformal coating

Special Topics in  
Materials Science and  
Engineering at the  
Graduate level.

Deformation-related  
physical behaviors of

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materials in the  
mathematical  
framework of tensor  
analysis. Material  
symmetry and ...

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Computational  
Materials  
Science—Graduate  
Certificate  
Cairns, D.S. and  
Lagace, P.A., "A  
Consistent

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Engineering Design  
Methodology for  
Composite Structures  
... re-presented at  
General Dynamics  
Aircraft Corporation,  
June, 1989. Theory of  
Elasticity of ...

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Resume for Douglas  
Scott Cairns  
Introduces  
anisotropic elasticity

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Elasticity

...testing methods,  
engineering elastic  
constants, failure  
criteria, and  
micromechanics. (Y,  
F) Prerequisite: MEM  
663. Summarizes  
mechanics of  
materials Courses.

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Mechanics Courses  
CE 59500 - Finite  
Elements in Elasticity

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Fundamentals of  
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