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coverage of, a
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overview to foster innovation. It offers insight into the importance of 3D systems and their use as benchtop models, spanning applications from basic scientific research to clinical diagnostics.

Methods and limitations of

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building 3D tissue
structures are
evaluated, with
attention given to
the cellular,
polymeric, and
fabrication
instrumentation
components. The
book covers the
important aspects of
polymeric tissue test
systems,

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highlighting the
needs and
constraints of the
industry, and
includes a chapter
on regulatory and
pricing issues.

Focuses entirely on
demystifying the
field and subject of
ICME and provides
step-by-step
guidance on its

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industrial application
via case studies

This highly-
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concepts includes
engineering practice

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case studies related to the analysis, design, and use of structural metal alloys. A welcome supplement to the first book—which includes the theory and methods required for teaching the subject in the classroom—Integrated

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Computational

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Engineering (ICME)

For Metals:

Concepts and Case

Studies focuses on

engineering

applications that

have occurred in

industries

demonstrating the

ICME

methodologies, and

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aims to catalyze
industrial diffusion of
ICME technologies
throughout the
world. The recent
confluence of
smaller desktop
computers with
enhanced
computing power
coupled with the
emergence of
physically-based

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material models has created the clear trend for modeling and simulation in product design, which helped create a need to integrate more knowledge into materials processing and product performance.

Integrated
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For Metals: Case

Studies educates

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Phase-Field Crystal
Modeling;
Simulating
Dislocation Plasticity
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Concepts with
Macroscale Models;
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Multiscale Modeling
of Pure Nickel;
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and more. Presents
case studies that
connect modeling
and simulation for
different materials'
processing methods
for metal alloys

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Demonstrates
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several practical
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problems to
encourage industry
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new simulation-
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paradigm Provides
web access to micro
structure-sensitive
models and

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experimental
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database Integrated
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Materials
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For Metals: Case
Studies is a must-
have book for
researchers and
industry
professionals aiming
to comprehend and
employ ICME in the

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design and
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