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anesthesia....The textbook is divided into logical, easy to use sections that cover all areas necessary for the practice of nurse anesthesia....This is a text that is easy to read and able to be incorporated into any nurse anesthesia chemistry and physics

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includes only those core scientific concepts that relate to clinical anesthesia application. Numerous illustrations demonstrate how the scientific concepts relate directly to their clinical application in anesthesia, and plentiful case studies exemplify and reinforce

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***thought-out problem sets
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pedagogy. This edition
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***known best for his
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Chapters 39-46

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experimental cases
illuminated with numerous
illustrations. Coverage is
divided into six broad
sections, systematically
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topics dealt with laser-matter interactions. Many experiments were undertaken to clarify the major ablation mechanisms. At the same time, numerous theoretical studies, both analytical and numerical, were

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proposed to describe these interactions. These studies paved the ways toward the development of numerous laser applications, ranging from laser micro- and nanomachining to material analysis, nanoparticle

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and nanostructure formation, thin-film deposition, etc.

Recently, more and more promising novel fields of laser applications have appeared, including biomedicine, catalysis, photovoltaic cells, etc. This book

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intends to provide the reader with a comprehensive overview of the current state of the art in laser ablation, from its fundamental mechanisms to novel applications.

This volume is important

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because despite various external representations, such as analogies, metaphors, and visualizations being commonly used by physics teachers, educators and researchers, the notion of using the pedagogical

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functions of multiple representations to support teaching and learning is still a gap in physics education. The research presented in the three sections of the book is introduced by descriptions of

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various psychological theories that are applied in different ways for designing physics teaching and learning in classroom settings. The following chapters of the book illustrate teaching and learning with respect to

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applying specific physics
multiple representations in
different levels of the education
system and in different physics
topics using analogies and
models, different modes, and in
reasoning and representational

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competence. When multiple representations are used in physics for teaching, the expectation is that they should be successful. To ensure this is the case, the implementation of representations should consider

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design principles for using multiple representations. Investigations regarding their effect on classroom communication as well as on the learning results in all levels of schooling and for different topics

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of physics are reported. The book is intended for physics educators and their students at universities and for physics teachers in schools to apply multiple representations in physics in a productive way.

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support from the National Science Foundation. Icons in the text indicate the problems designed for use with the software.

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and rapidly growing fields
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reality of all-optical
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help them apply these
concepts to the Advanced
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