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anesthesia students. Now in its third edition, the text is updated and reorganized to facilitate a greater ease and depth of understanding. It includes additional clinical application scenarios,

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detailed, step-by-step
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demonstrating a unique
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calculator. The addition of a third author--a practicing nurse anesthetist--provides additional clinical relevance to the scientific information. Also included is a comprehensive listing of

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how scientific concepts relate directly to their clinical application in anesthesia, and end-of-chapter summaries and review questions to facilitate self-assessment. Ten on-line

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method Additional clinical
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on the gas laws Key

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text provides pro-active methods for identifying hazards, assessing risk, analyzing hazards, using tools from system safety, conducting post-incident investigations, considering

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despite various external
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metaphors, and visualizations being commonly used by physics teachers, educators and researchers, the notion of using the pedagogical functions of multiple representations to support teaching and learning is still a gap in

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physics education. The research presented in the three sections of the book is introduced by descriptions of various psychological theories that are applied in different ways for designing physics teaching and

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learning in classroom settings. The following chapters of the book illustrate teaching and learning with respect to applying specific physics multiple representations in different levels of the education system and in different physics

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topics using analogies and models, different modes, and in reasoning and representational competence. When multiple representations are used in physics for teaching, the expectation is that they should be successful. To ensure this is the

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case, the implementation of representations should consider design principles for using multiple representations. Investigations regarding their effect on classroom communication as well as on the learning results in all levels of

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schooling and for different topics 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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modern physics. The authors clarify and show support for these theories through a broad range of current applications and examples- attempting to answer questions such as: What holds molecules together? How do electrons tunnel

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through barriers? How do electrons move through solids? How can currents persist indefinitely in superconductors? To pique student interest, brief sketches of the historical development of twentieth-century physics such as anecdotes

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physical theories--theories
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problem solving; and
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