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Sommario/riassunto

A collection of papers from The American Ceramic Society s 32nd International Conference on Advanced Ceramics and Composites, held in Daytona Beach, Florida, January 27-February 1, 2008. Topics include basic and applied research in nanomaterials such as synthesis, functionalization, processing, and characterization; structure-property correlations; bio- and magnetic nanomaterials; nanostructured materials for chemical mechanical planarization, display, health, and cosmetic applications; nanotubes and nanowires; and industrial development.

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Sommario/riassunto

A much-needed guide on how to use numerical methods to solve practical engineering problems Bridging the gap between mathematics and engineering, Numerical Analysis with Applications in Mechanics and Engineering arms readers with powerful tools for solving real-world problems in mechanics, physics, and civil and mechanical engineering. Unlike most books on numerical analysis, this outstanding work links theory and application, explains the mathematics in simple engineering terms, and clearly demonstrates how to use numerical methods to obtain solutions and interpret resu