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and sports mechanics. The development of novel algorithms and computational approaches to improve numerical solutions to these challenging problems has been the traditional concentration of this ...

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My research interests include numerical analysis, approximate solution techniques, mathematical modeling, and mechanics of flows through porous ... mixed finite elements and Eulerian-Lagrangian ...

Applied Mathematics

Engineering mechanics applied to the human body in health and disease ... forms of governing equations for incompressible viscous flows. Some analytical solutions are obtained and students are exposed ...

Potential Courses

Topics normally include matrices and vector calculus, coordinate transformations, numerical solutions using ... Newtonian mechanics for a single particle, linear and nonlinear oscillations, Euler's ...

Undergraduate Course Descriptions

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Physics & Applied Physics Course Listing

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