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Numerical Methods For Engineering. Numerical Methods is a manner in which 'discretization' of solutions can be achieved rather than analytical solutions (eg. integration, differentiation, ordinary

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modeling of biomedical engineering problems. Broadly, the course will cover numerical methods of integration, differentiation, interpolation, curve fitting, data analysis, sampling and estimation, error analysis, analysis of ordinary differential equations, symbolic computation, and scientific visualization.

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This course introduce numerical methods for solving mathematical problems from various fields of engineering especially biomedical engineering. We will cover the concepts of numerical interpolation, linear algebra, numerical differentiation and integration, and numerical solution of differential equations.

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in other numerical methods textbooks for engineers. With a wealth of

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biomedical engineering examples, case studies on topical biomedical research, and the inclusion of end of chapter problems, this is a perfect core text for a one-semester undergraduate course. Michael R. King is an Associate Professor of Biomedical Engineering at Cornell University.

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