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problems for which analytical solutions are known, one must resort to numerical methods. In this situation it turns out that the numerical methods for each type of problem, IVP or BVP, are quite different and require separate treatment. In this chapter we discuss IVPs, leaving BVPs to Chapters 2 and 3.

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statistics but instead to find practical methods for analyzing data, a strong emphasis has been put on choice of appropriate standard statistical model and statistical inference methods (parametric, non-parametric, resampling methods) for different types of data. Then, methods for processing multivariate data are briefly reviewed. The

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ing either numerical or statistical solution techniques. Nu-merical methods can often provide a higher accuracy than statistical methods, whose results are probabilistic in nature. However, numerical methods are far more memory intensive, which often leaves statistical solution techniques as a last re-sort [31,8].

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7.2 Newton's method 103 7.3 Limiting behavior of Newton's method 108 7.4 Mixing solvers 110 ... "numerical analysis" title in a later edition [171]. ... for millennia the name "numerical analysis" would have been redundant. But analysis later developed conceptual (non-numerical) paradigms, and it became useful to specify the ...

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