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Applied Numerical Methods With MATLAB for Engineers and Scientists Steven C. Chapra Tufts University . 1
CHAPTER 1 1.1 You are given the following differential equation with the initial condition, $v(t = 0) = 0$, v^2 m c
g dt

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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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