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following differential equation with the initial condition, $v(t = 0) = 0$, $v^2 = m c g dt$

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Solutions Manual to accompany Applied Numerical Methods With MATLAB for Engineers and Scientists Steven C. Chapra Tufts University CHAPTER 1
1.1 You are given the following differential equation with the initial condition, $v(t = 0) = 0$, $c dv = g dt - v^2 dt$ Multiply both sides $m dv = m g dt - c v^2 dt$
Define $a = mg - c v^2$ Integrate separation of variables, $dv = \frac{a}{v^2} dt$ A table of integrals can be consulted to find that $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
Therefore, the integration yields $\frac{1}{v} = \frac{c}{m} t + C$...

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