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CHAPTER 1 1.1 You are given the following differential equation with the initial condition,  $v(t = 0) = 0$ ,  $v^2 \text{ m c}$   
g dt

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Use your result to determine the shear stress ( $\tau$ ) at the surface where  $\tau = 1.8 \cdot 10^{-5} \text{ N/s/m}^2$ .

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[Solution] numerical methods for engineers chapra 1. CHAPTER 22.1 IF  $x < 10$  THEN IF  $x < 5$  THEN  $x = 5$  ELSE PRINT  $x$  END IF ELSE DO IF  $x < 50$  EXIT  $x = x - 5$  END DO END IF 2.2 Step 1: Start Step 2: Initialize sum and count to zero Step 3: Examine top card.

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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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