

## Solved Examples In Chemical Engineering Roy

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We will use this example in subsequent illustrations of the proposed strategy. For this example, just a sketch of the process is required. 4. Write additional data required to solve the problem and the chemical equations if the process involves chemical reaction. 5. Select a suitable basis of calculations. 6.

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Example: • Use separation of variables to solve: • Does a solution exist for all times? Is the solution unique? Existence and Uniqueness.  $\frac{dx}{dt} = x^2$ .  $x(0) = x_0$ .  $\frac{dx}{x^2} = dt$  )  $\frac{1}{x} = t + C$  )  $x(t) = \frac{1}{t + C}$  )  $x(t) = \frac{1}{t + \frac{1}{x_0}}$  .

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Chapter 08.02 Euler's Method for Ordinary Differential ...

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