

Differential Equations

Computing and Modeling

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C. Henry Edwards, David E. Penney



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CONSTANTIN CORDUNEANU PhD is Emeritus Professor in the Department of Mathematics at The University of Texas at Arlington USA The author of six books and over 200 journal articles he is currently Associate Editor for seven journals a member of the American Mathematical Society Society for Industrial and Applied Mathematics and the Romanian Academy and past president of the American Romanian Academy of Arts and Sciences

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web we utilize the equation that relate amount remaining initial mass and number of half lives $n = \frac{t}{T} \times \log_2 \left(\frac{M_0}{M} \right)$

125 g 5 what is the half life of an isotope that is 80 remained after 16 days solution remaining 80 100 therefore $n = \frac{16}{T} \times \log_2 \left(\frac{100}{80} \right)$

now using the half life equation in example 1 we have

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