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NCERT Question 11.9.3.9

EE23BTECH11019 - Faisal Imtiyaz *

Question: The R-L circuit with $R = 10k\Omega$ and L = 1mH is excited by a step current $I_0u(t)$. At $t = 0^-$, there is a current $I_L = I_0/5$ flowing through the inductor. The minimum time taken for the current through the inductor to reach 99% of its final value is ... μs (rounded off to two decimal places). **Solution:**

