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(a) To calculate the probability, first divide the time into intervals such that Δt . Also, when $\Delta t \rightarrow 0$, the term Δt , and the value of approaches zero. The probability that no collision occurs in time interval Δt is given by the Drude model to be $e^{-\Delta t/\tau}$. It is important to note that the probability for no collision in interval Δt must hold for each time interval making up time t ; therefore the probability $P(t)$ for no ...

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homework and exercises - Explanation of Ashcroft & Mermin ...

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Solutions of Selected Problems and Answers

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