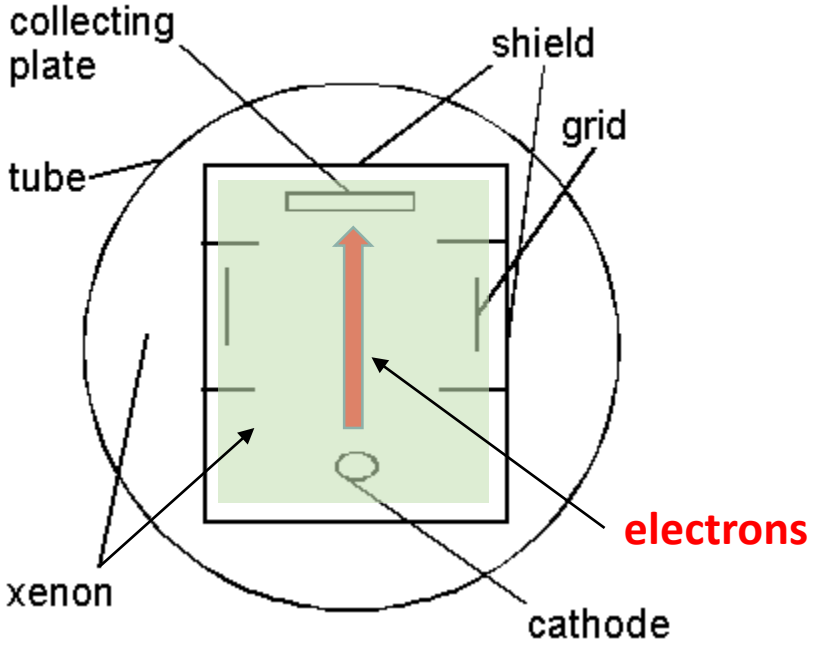
AMERICAN JOURNAL OF PHYSICS VOLUME 36, NUMBER 8 AUGUST 1968

Demonstration of the Ramsauer–Townsend Effect in a Xenon Thyratron

STEPHEN G. KUKOLICH

Department of Physics, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139



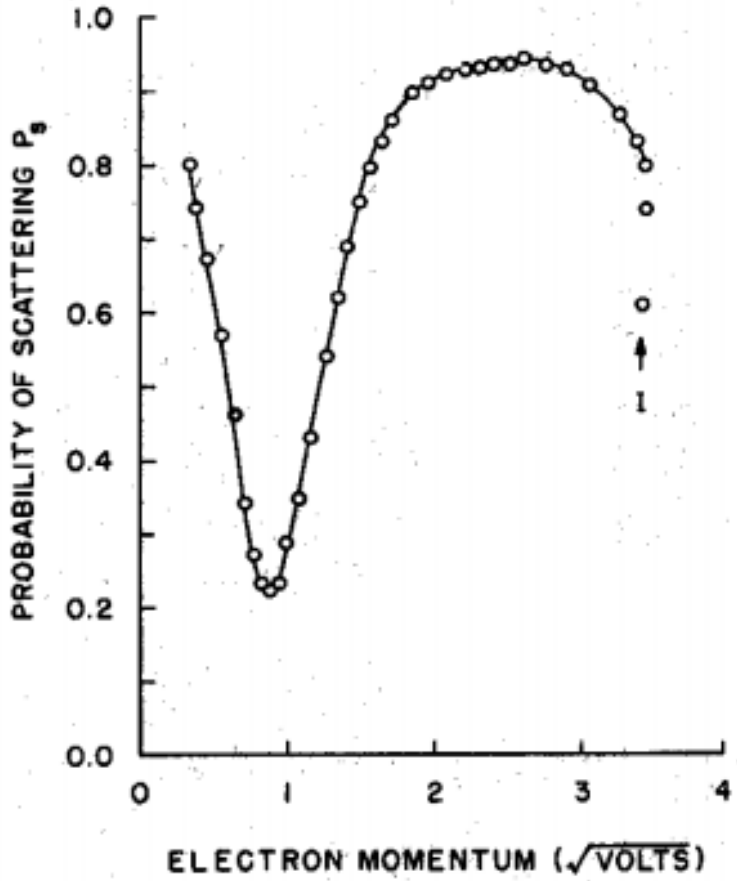
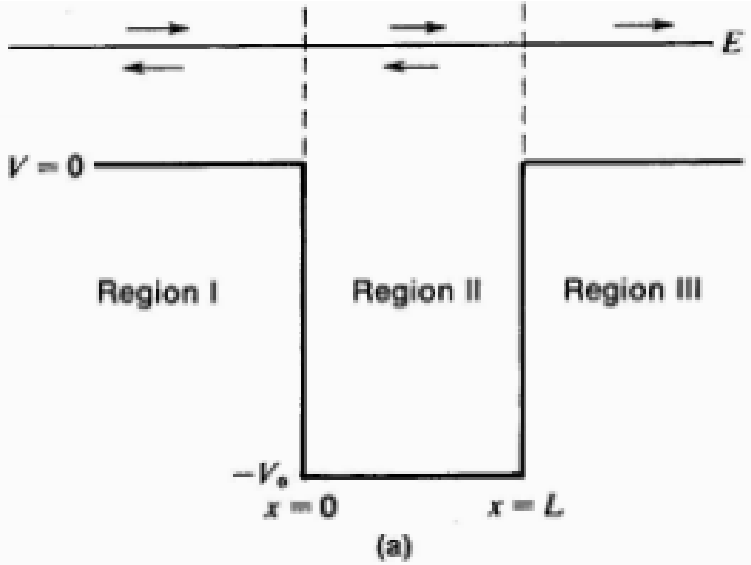


FIG. 4. The probability of scattering P_s as a function of $(V-V_s)^{1/2}$, where $V-V_s$ is the electron energy. Ionization occurs at "I".



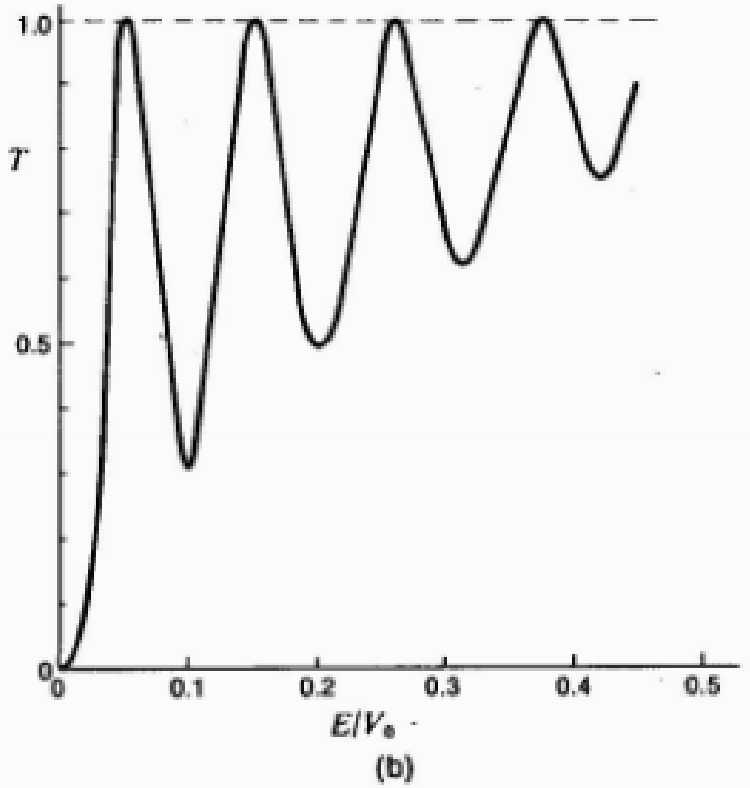


Fig. 9-5
(a) Steady-state situation for one-dimensional scattering of particles of unique energy E by a square well. (b) Transmission coefficient T of square well as a function of incident particle energy, calculated for the dimensionless parameter $L\sqrt{2mV_0}/\hbar$ equal to 20.5 π. Note resonances giving 100 percent transmission at certain energies.