

the amount of porticles townling Through a unit area per unit time in a specific direction and energy. d) Ex is the total macroscopic cross section, which is the aug. # of reactions per unit track length, where a reaction removes the price from Y (1, 1, E, t). e) Q is the source of neutrons volume in the energy and direction of 4 Ψ: is the flow at Xi, which is the inlet, in the direction and enogy of the flux. (Boundary condition) Xi is the location of the inlet 93 5) L47 - (xc-xi) = (xe 40x) dx $= \int_{x_{i}}^{x_{e}} \frac{-\frac{\xi_{i}}{m}(x-x_{i})}{dx} \frac{Q}{\xi_{e}} \int_{x_{i}}^{k_{e}} \left(1-e^{\frac{\xi_{i}}{m}(x-x_{i})}\right) dx$ = 12 (*c dx + (4: - 20)) *c - 50 (x-x:) dx u=x-x; du= dx Ui = 0 Ue = xe-x; So e m du = [-n - lt u u = xc-x; 2 -M (- St (ke-vi) - 1) = 1 (xe-x;) . (4: - 2) 1 (1 - e)