







$$G^{2} = \int (t - t_{m})^{2} E(t) dt$$

$$= \int (t - t_{m})^{2} E(t) dt$$

b) Fraction of fluid that spends a time 1.5 min or longer

$$= \int_{1.5}^{\infty} E(t)dt$$

- = 0.5
- c) Fraction of fluid that spends 2 min or less in the reactor

d) Fraction of fluid that spends between 1.5 min and 2 min