Prediction of breeding value the for arrived i for a single trout: Ui= I = b y mith y vector of all information corrected for appropriate population when b. rector of unknown index a Goal: ui should be such that it predicts ui as
good as possible => Error (ui-ui) should
be minimal the prediction error variance: var (4:-4:) - Minimize R= vav (u;-u;) R= var(u; (ni)) = var(u; -I) = var(u; -by) - var (vi) + var (by*) - 2 cov (vi, (y*). b) - 5" + 6" var(y) b - 2 6 cov (ui, (y)) $\left(\begin{array}{c} |\nabla a r \left(\frac{q^{\frac{1}{2}}}{q^{\frac{1}{2}}} \right)| \\ |\nabla a r \left(\frac{q^{\frac{1}{2}}}{q^{\frac{1}}} \right)| \\ |\nabla a r \left(\frac{q^{\frac{1}{2}}}{q^{\frac{1}}} \right)| \\ |\nabla a r \left(\frac{q$