et the case where the true diministion of X is described by a parametric model f(x10) OE OF parameter searce: unknown parameter } How to specify the correct 0=00??? ake n-sample of i.i.d X1,..., Xn and compute how possible is to get these data & given 0: $L_n(0) = f(X_1, X_n/0) = \prod f(X_1/0) : likelihood function$ he value of 0 that maximizes-Ln(0) is the maximum litelihood estimator of 0: 0 = argmax Ln(0) equiralently we can define the Rog-likelihood function \$100 = log[n(0) = I log f(X; 10) and maximize it. (1) MLE-Ó is a sample analog of the true parameter-Oo: