The power function PF h(D) of a fest is the prob-ty of rejecting to when the value of is correct value of the parameter in the parameter h(D)= P(Ho is rejected if O correct)
value of the parameter) $h(0) = P(T(X) \in C(0))$ So if P(D) = P(faul to reject Ho/Q) then h(0)=1-B(0) Properties of the h(0): $\cdot 0 \leq h(0) \leq 1$ A test is good if h(D) is large + DeHI (small + De Ho) sup h(0) = X

Relationship of Land B Proposition Suppose an experiment and a sample SIZE are fixed and a test statistic is chosen. Then decreasing the test size of the rejection region to obtain a smaller value of 2 results

Using the Normal Approximation