Aim: Testing of typothesis con variance of population	icening the
variance of "population	. 0
Experiment :	
(i) Suppose that uniformity of a the used in a semiconduction is measurements of the thickness to of 18 such parts have the variation of thickness is given the variation of thickness is given a manaled the the sample from a normal the the sis of 2 > 0.36 against the hypothesis of 2 > 0.36 against the	ickness of a part is
measurements of the thickness is	critical & that
of 18 such parts have the va	riance (32) = 0.68
the variation of thickness is a in	under control if
Assuming that the measurement	constitute a
the Ho of 2 = 0.36 against	population Test
hypothesis = 2 > 0 36 at 5%. Le	st of significance.
90)	
(11) Weights in Kg of 10 students are	given below,
38 40 45 53 47 43 55 1.6	
say that variance of the d	st. of we also
was taken is early to thich +	he above sample
38, 40 45 53 47 43, 55 48 Say that variance of the du of all students from which to uas taken is equal to 20 s 5 1. level of significance	quare Kg at
Theory	
-> Testing the equality of population	variance.
To test the the that the variance of	fa normal pop.
equals the given constant given	a reardom sample
have to test the the	op. we shall '
$H_0 : \sigma^2 = \sigma^2$	
against	
H 5 52 7 5-2	7 / 0 2 4 0, 2
Here we use the theorem that if x	and the are indep.
of freedom and (x, +x) has	with Vi degree
aist with V > VI df then &	
square dist with V-V, df	thus the critical
one sided alternatives as	at the tuo
$x^2 > x^2$	
Legal Banis	

