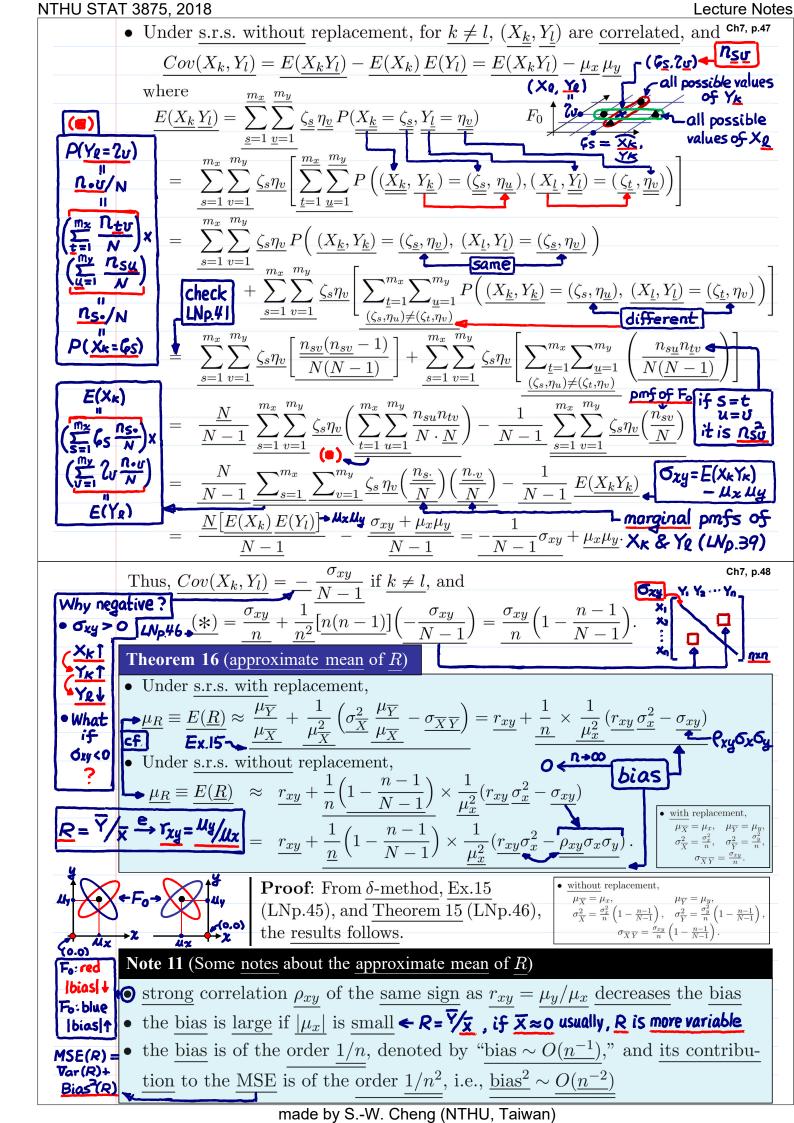
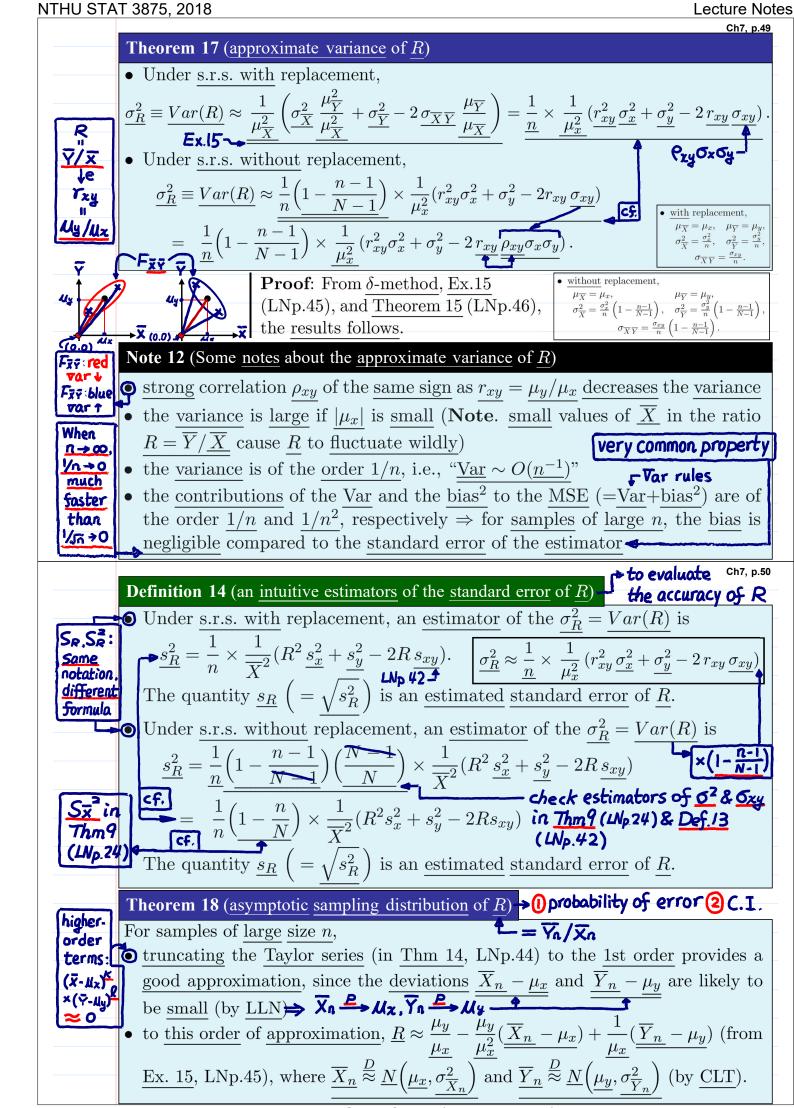


• Under <u>s.r.s.</u> with replacement, when  $\underline{k \neq l}$ ,  $\underline{X_{\underline{k}}}$  and  $\underline{Y_{\underline{l}}}$  are <u>independent</u>. Thus, for  $\underline{k \neq l}$ ,  $\underline{Cov(X_{\underline{k}}, Y_{\underline{l}})} = \underline{0}$ , and (\*) equals  $\sigma_{xy}/n$ .





Note that  $s_R$  is small because x and y are highly positively correlated,

 $r_{xy} > 0$ , and X is large.  $\leftarrow$  check the graph in LNo.49

accuracy of R