



(... the basis 1+) = (107+(17)/NZ

How to implement controlled. User addressing unitary U?  
For Cor. 9.2 on pg. 196,  
U: 
$$e^{ix} A \times B \times G$$
, when  $ABC: I$   
First ship is to place chift exp(ix) anterput gobil, controlled by carbol qubit  
1007 - 1007, 1017 - 1017, 1107 -  $e^{ix/107}$ , 1117 -  $e^{ix/117}$   
Suppose control gubil, is at i  
Hen  $e^{ix} AYBYC = U$  is applied to 2nd qubit.  
-'spore and: 10  
Hen  $ABC = I$  applied to 2nd qubit.  
In picking:  
U =  $e^{ix} B \times G \times G$   
What about conditioning on multiple qubit?  
Spore when hel qubits and  $U$  is a L-qubit unity operate. Then  
 $C^{-}(U) | x_1 \dots x_n 7 | Y > 1 | x_1 \dots x_n 7 | V^{X_1 \dots X_n} questions
here to prefere and the interval and,
 $k_{-35} \in U$ .$ 



