19(510039 Kaushal Bantlus

This is true for 2 = 0 true.

Thus, 11Ax112 = 11A/12/11x112 (for x e 12")

Let 0 be a matrix. and R = Bx

: From previous results

11 Anle = 11 Alle 11 nille

< 11 All 2 11 Bx112

= 11 All 2 11 Bll 2 11 x1/2 (carchy Schwartz Inequality)

: 11 AB/12 = 11 All 2 11 B 112

For fro benius norm,

Let C= AB : Cij = Z aik buj

= ( \frac{2}{5} \frac{2}{10} \land \frac{2}{10} \la

E HATT IIBIF -> HABIT = HATT HBIT