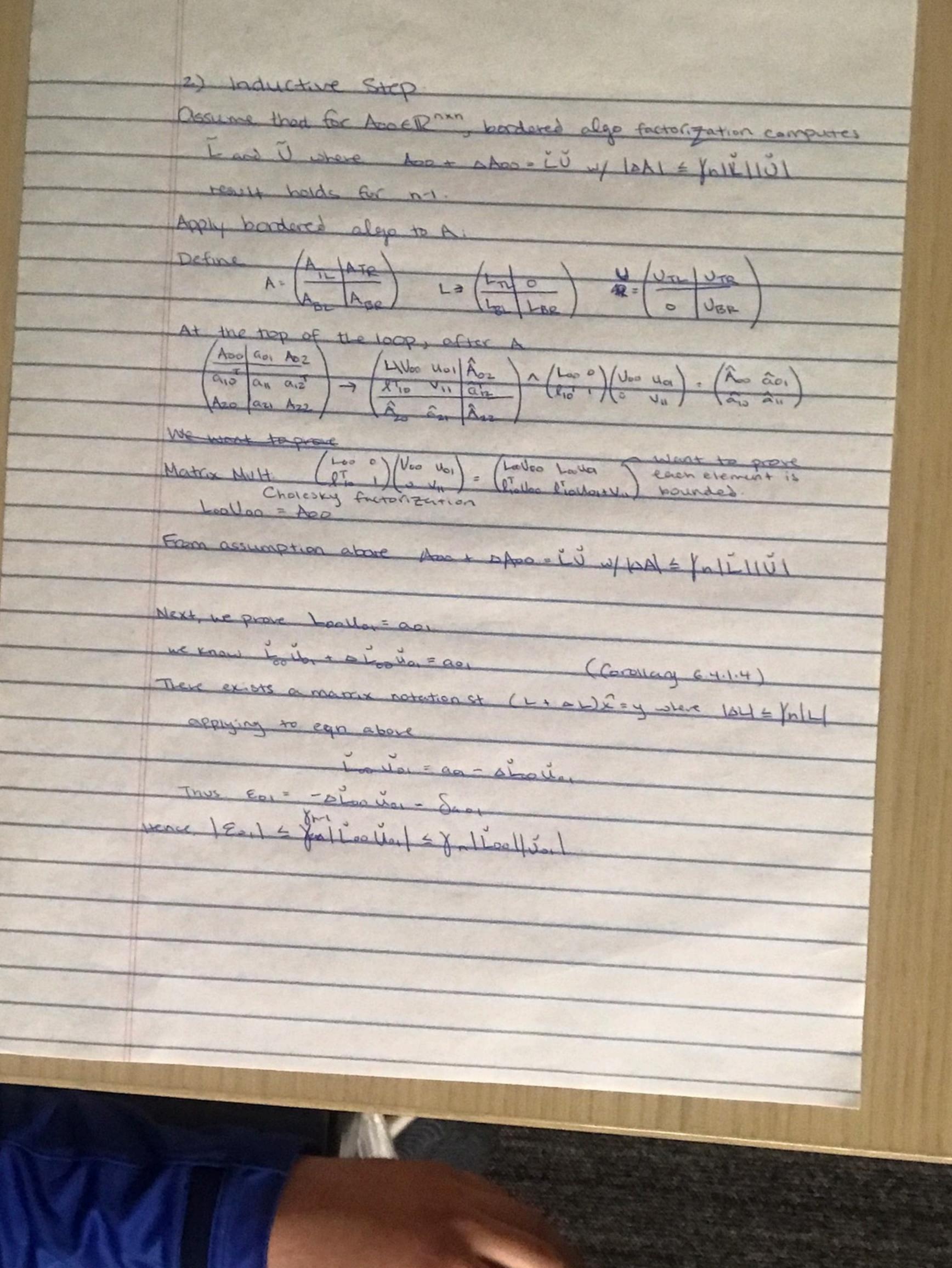
Backward Error Analysis of Bordered algo. we know the defot bordered algorithm that (ATL ATR) = (L) UTL | ÂTR) A LTL UTL = ÂTE ABL | ÂBL | ÂBR) For backward error analysis, can be computed as (L) VI = [IV(An)] VTR-0 Computed forton i and i satisfies

Low = 0 [[i]VER]=0 LV-A-SA we will use a proof by induction. (a.) Base case: n=1 IF A'x I Then A is just a real valued scalar. From 6.2.2, we defined error from storing a real number or where Additionally, we will define In as Ja: nemach (Thm 63.2.3)

1-némach for Vn 21 & némach < 1 For bove case now, In Emach 2 4 Emach Thus LALE YNIKIIÚI => LAAL = Yn holds the for n=1 (ILUIE ILIIU) due to A inequality)

AGE



LABLES

