PROBLEM 15-56 Dirers A hydraulic jump aceurs in a wide, rectangular Channel. If the depths up stream and downstream are .5 ft and 10 ft, respectively, what is the discharge per por pot of with of chamee? Frid > Discharge per feet of wilter of channel. Soluti > Wong hydraulic jump equation -92= 4 / 1+ 8Fr,2-1 =) 10 = 15 [H8Fr 2-1] - Fr= 14.14 Fronde Number equations FV = 3 14.14 = 2 (.5)3 =) 9 = 28.37 H/S Discussion > We use the hydraulic Jump expeater and the given suprirean and downstream deptus
to solve for the France number. Then, we
want to solve for the discharge per Bot of width of channel.

HOUE STUDENT CHAPTER CHASTE