Astik Tadhow

(22)

Camlin Page

2018/10019

male female Total
fiction 250/90) 200(360) 450
non-fiction 50(210) 1000(840) 1050
Total

eij = Count (A = ai) x count (B=bj

= 90 1500 e21 = 300 × 1050 = 210

1500

C11 = 300 + 450

022 = 1200 × 1050 = 840 1500

C21 = 1200 × 430 = 360 1500

 $\chi^{2} = \underbrace{\underbrace{5}_{i-1}}_{j=1} \underbrace{\underbrace{(0ij - eij)^{2}}_{eij}}^{\text{observed}}$  $\chi^2 = (250 - 90)^2 + (50 - 210)^2 + (200 - 360)^2 + (1000 - 840)^2$ 

= 284.94 + 121-90 + 71.11 + 30.48 = 507.93

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Date 1 1 2018110019  $DOF = (2-1) \times (2-1) = 1$ for DOF X2 value on needed to reject the hypothesis for st at 0.00/ significance is 10.828 since computed value is much higher fran pris we can safely reject the typothesis that gender and preferred reading are independent and conclude that they are correlated. (51) Ontime Late VeryLale Canclled Prob. 14/20 = 0.7 2/20=0.1 3/20=0.15 1/20 = 0.05 Weekday 9/14 = 0.64 3/3=1 1/2=0.5 0 / 1 = D 2/2=1 Winter 2/14 = 0.14 0/1=0 2/3 = 0.67 High 4/14=0.29 1/3 = 0.33 1/1 = 1 1/2 = 0.5 1/3 = 0.33 0/1=0 None 5/14 = 0.36 1/2=0.5  $= 6.548 \times 10^{-3}$ lases ontime = 0.0125 = 0.0109 veryLate = 0 Cancelled. Late is the heighest hence the accurate class is Late.