

Consider man matrices of O's and 1's with at least one each row & column Some number of columns will contain non Thus, when constructing a matrix swithing the condition, there are

(1) vays to choose columns filled with I's for each of the man

rows, each of the remaining (n-k) entries is either for 0.

Wising the variable to count I's, we obtain ((1+t)"-")m

However, there must be at least one I in each vow. Taking

(11+t) n-k-1) m ensures each row contributes some power of t. on matrices conta columns of all 0' hat fit the condition often removing k columns flowerer, we can have matrices with universal columns of 1's, so we take the atternating sum to adjust a coordingly (via P.I.E.) (instead of all 1 properly apply th 8/10 Thans, [i=nfilm,h)ti = [Lkso E-1)k(h)(1/+t)n+1)m Topoe some marker of columns (to In each now (m) there weln-k t are either Ox monted but, so lot) hoke (63202

