Insert Title

LazR ('3')

Insert Date

Cuprins

$$\vec{P} = (AB - C)\vec{r} = O_n \vec{r} = \theta.$$

$$p_i = \sum_{k=1}^n o_{ik} r_k \Rightarrow r_j = \frac{p_i - \sum_{k=1, k \neq j} o_{ik} r_k}{o_{ij}}, o_{ij} \neq 0.$$

 $p = P(\vec{P} = 0) = P(\text{toate elementele lui } \vec{P} \text{ să fie } 0).$

 $P(\text{un element oarecare al lui } \vec{P} \text{ să fie } 0) = P(p_i = 0) = P\left(r_j = -\frac{\sum_{k=1, k \neq j} o_{ik} r_k}{o_{ij}}\right).$

$$P\left(r_{j} = -\frac{\sum_{k=1, k \neq j} o_{ik} r_{k}}{o_{ij}}\right) = P\left(\sum_{k=1, k \neq j} o_{ik} r_{k} = 0 \middle| r_{j} = 0\right) + P\left(\sum_{k=1, k \neq j} o_{ik} r_{k} = -o_{ij} \middle| r_{j} = 1\right)$$

$$= P\left(\Sigma = 0\right) \underbrace{P(r_{j} = 0)}_{=\frac{1}{2}} + P\left(\Sigma = -o_{ij}\right) \underbrace{P(r_{j} = 1)}_{=\frac{1}{2}}$$

$$= \frac{1}{2} \underbrace{\left(P(\Sigma = 0) + P(\Sigma = -o_{ij})\right)}_{\leq 1}$$

$$\leq \frac{1}{2}$$
.

$$p = (p_1 = 0 \cap p_2 = 0 \cap ... \cap p_i = 0 \cap ... p_n = 0) \le \frac{1}{2}.$$