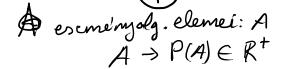
## Valdszinniselgalgebralera vonat rose azonossalgak 1. azonossaloj

1. azonossaloz
$$B \subseteq A \Rightarrow P(B) \leq P(A)$$



$$A = B vary C$$
 $C = A eb \overline{B} metszete$ 
 $B \not\in S C = O$ 
 $\Rightarrow R = O S$ 

2. aronossalg
$$P(A) + P(\overline{A}) = 1, \forall A \in \mathcal{A}$$

Mela poir darab azonossalg:

1.) 
$$AB=0$$
 exclen:  
 $P(A+B)=P(A)+P(B)$ 

Tovalle altolanositua:

devivalens

derivations
$$\Rightarrow P(A+B) = P(A) + P(\overline{A}B)$$
axioma
clapjain

eleteten 
$$P(A+B)-P(B)=P(A)+P(AB)-P(AB)$$

$$P(A+B)=P(A)+P(B)-P(AB)$$

Et is lettet tovalle altalainossifani:

TETEL.  $A_{1},A_{2},A_{3},...,A_{n} \in A$   $P(A_{1}+A_{2}+...+A_{n}) = \sum_{k=1}^{n} (-1)^{k-1} S_{k}^{(n)}$   $\sum_{k=1}^{n} P(A_{i_{1}},A_{i_{2}}...A_{i_{q}})$   $1 \le i_{1} \le i_{2} ... \le i_{q} \le n$ Mognaran pl.: N = 2 - R  $\sum_{1 \le 1 \le 2 \le 2} P(A_{1},A_{2}) \text{ jelentelse: } \binom{2}{1} + \binom{2}{2} \text{ ozaz:}$ 

 $\begin{array}{ccc}
\textcircled{1}_{P(A_1)+P(A_2)} & \textcircled{2}_{P(A_1A_2)} \\
(-1)^{\circ} & (-1)^{\circ}
\end{array}$ 

Visszalapjul az előző azonosságot.