

Teaching Page 1

Konserver
$$\begin{cases} \xi + I) P(E) > 0 \quad \forall E \in \mathcal{E} \\ ID P(D) = 1 \\ ID P(D) = 2 P(E) \ dran Eis one.
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For
$$\Omega_{\infty} \in IR$$
, probadict. Px is fully characterized
by its cumulature distribution function (cdf)
 $F_{\infty}(\alpha) \cong P_{\infty} \gtrsim \times \le \alpha 3$
frequencies: F_{∞} is non-decreasing example $F_{\infty}(\alpha)$
 $V_{\infty} = 0$
 V_{∞

with
$$\int_{\mathbb{R}^{n}} (gr ds. R.U.)$$

 $e.g \notin_{f(x)} = 1$
 $f(x) = 1$

independence.

$$\begin{array}{l} \times \text{ independent } q & \swarrow & p(x,y) = p(x)p(y) & \forall x \in I_{x} \\ & y \in \mathcal{Y}_{y} \\ \text{ Weatries } & \times & \coprod & \\ & \text{ "mutual independence" } gr & R.V. & X_{1}, ..., X_{n} & \Longrightarrow & p(x_{1}, ..., x_{n}) = \mathcal{T}(p(x_{1})) \\ & \text{ condutioning.} \end{array}$$

Er events
$$A \leq B$$
, suppose that $p(B) \neq 0$
then define $p(A|B) \stackrel{\Delta}{=} p(A|B)$
 $p(B)$
 $p(B)$
 $p(B)$
 $p(X=x|Y=y) \stackrel{\Delta}{=} p(X=x, Y=y)$
 $p(Y=y)$

$$\sum_{z} p(x_{zx}, x_{zy}) = p(x_{zy})^{2}$$

Usample: $p(x_{zx}, x_{zy}) = p(x_{zy})^{2}$
Usample: $p(x_{ux}, y_{zy}) = p(x_{y}) p(y)$
Solde $p(x_{uy})$ is underived under $p(y) = 0$
 $p(x_{uy}) = p(x_{uy})$ is underived under $p(y) = 0$
 $p(x_{uy}) = p(x_{u}) p(x_{u}) p(x_{u}) p(x)$
 $p(x_{uy}) = p(x_{u}) p(x_{u}) p(x_{u}) p(x)$
 $p(x_{uy}) = p(x_{u}) p(x_{u}) p(x_{u}) p(x)$
 $p(x_{uy}, \dots, x_{n}) = p(x_{u}) p(x_{u}) p(x_{u}) p(x_{u})$
 $p(x_{u}, y_{u}) = p(x_{u}) p(x_$