$$\begin{array}{lll}
\bigoplus X = LB & \mathbb{E}\left[LB \mid Y = Y_{j}\right] = \frac{\mathbb{E}LB L A_{j}}{\mathbb{P}(A_{j})} = \frac{\mathbb{P}(B \cap A_{j})}{\mathbb{P}(A_{j})} = \mathbb{P}(X = L \mid Y = Y_{j})
\end{array}$$

$$Y = \underbrace{\xi}_{j} \underbrace{\xi}_{Aj} \underbrace$$

$$E(x/y=y_j) = \frac{\leq x_i p_{ij}}{p(A_j)} = \sum_{i} x_i \frac{P(A_j \cap B_i)}{p(A_i)} = \sum_{i} x_i |P(B_i \cap A_j)|^2$$

$$= \sum_{i} x_i |P(x=x_i | y=y_i)$$

$$i$$

Inbapquire X u Y ca crys. ben, usquiro y e gucuperna. moraba E(X/4) e gucup con ben $f(x|y) = f(x|y=y_i) 1 A_i$ $Aj = \{ Y = y_j \}$

$$\mathbb{E}(x|y|)$$
 — $\mathbb{E}(x|y=y_i)$ $\mathbb{P}(A_i)$

Trespenso X, Z ca orben u 4 e group criben / = Ey; 1A; horaba: a) £ (ax+62/4) = # af(x/4) + b £(2/4) = I 5 X IL Y, up E (X/4) = EX = II b) x = g(4), uso £(x14) = g(4) = T 1) E/E(X14)/=EX = TV 3) \(\f(\(\beta\)/\q=\gi\) = \(\f(\beta\)\) u6genso \(\beta\) U=(Xi)ira aus ULLY V = (X, ___ Xn)