(I + BP + B3P2+ ----) X B-56lm 66861 1+ c+ c²+ c³+ --- = J-BP = I+BP+B3P3+... Neuman Series (I-BP)-1 x ~ ith row is the mathematical expection of (x + \$ x + 1 + B x + 2 + - - -) condition of being S; at of TIL Let X be a random variable -5 It be a vandem variable het ip be the distribution are states Pizo & Pi=1

Conditional Appeletion

it row of some P

or ph

See Ment dett = sin (Pin mad)

mx

mx

mx

shu (Pa (m * d))

of p

probability distribution

State space, S= \{ \S_1, --., \S_n \}

TT1, ----, TTn

P11.-- P1n

ruden varielle - verter

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E - Sum (TT * X)

We are a ding as if we know

the probabilitie

the parden variables us tructional he state.

Apply: - risk newhord

Pt = BER hdth + PEHJ (F)

dett = Nett dt,

New Makor on state space

(\$1,\$2,...\$5n)

P - transformation

Porsemito solve (\$1 for someting + Gd

tells me Pt as a function of 5th flooding.

 PE = BEE [den + Pen]

U() de = BE () to de + V() hen) hen fel]

and & Stane