Acting under uncertanpty Basec probabelety Notateon Bay's rules and ets uses Uncertainty (Acting) · A agent working an envisoment never 12 knows the complete touth of Pts eng roment hence 9t has to work under uncertainty. 2. Consider knowldge sepsesentation we might write A > B, which means 3 which means PR A PS true then B Ps true but consider splaation " we are not sure of they A 9s true or not then we can't s express the above statment. when agent works with uncertain knowledge then at might be impossible to construct the complete correct description of how actron work

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	12 17 18 19 20 21 22 23

MARCH DAY 083-282 • WK 13 BAYES THEOREM · Describe the probability of event bused on prior knowldge of conditions that is might be related to the event. "In probability theory it relates conditional probability & marginal probability of two random events Condettonal probability: PCH(E)= no of times P& E occur no of times is occur P(HIE) = P(HDE) ? Probabalay of H P(E) I when E as true 1 Calculate PCBIA) with knowldge of PCA1B) P(ANB) = P(A|B). P(B) - (D) P(ANB) = P(B|A). P(A) - (D) From O&O PCAIB), PCB) = PCBIA), P(A) 14 15 16 17 18 19 20 P(AIB), P(B) & P(BIA)

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12	d'illander en
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Basic probability Notation.

To derive knowledge from uncertain knowledge we use probability. OSPCALLI Where PCADPS the " probabelely of an event A 12 PCA) = 0 posts Pridecates total uncertainty Ps an event A. P(A)=1 androates certainly an event A. P(7A)= Probability of not happening event PCTA)+P(A)=1. 1) proposetton 2) Automac events · 3> viconditional prob 1) Independence. Proapospt Pon-: It is declarative Statment which is either four or Palse MTWTFS 2 3 4 5 7 8 9 10 11 12 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

WK 13 - DAY 086-279

Heavy toyed A

Random variable they are used "to represent the events & objects of rosew world.

11

2) Atomac event It is complete specification of 1 state or world about which the agent is not aware.

3) Uncondettonal probabelety

1t Ps degree of telef according

4 to proposition of abscance of

any other Prosmation.

Independence. It is seen blu 2 different set of rull point distributions
Independence endrates whether 2 Independence endrates whether 2 I Full point distorbutions affects portabilition of each other.
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APRIL 2014 WK M T W T F S S H 1 2 3 4 5 6 15 7 8 9 10 11 12 13 16 14 15 16 17 18 19 20 17 21 22 23 24 25 26 27
18 28 29 30