PENNSTATE

IE 419

Work Design: Productivity and Safety

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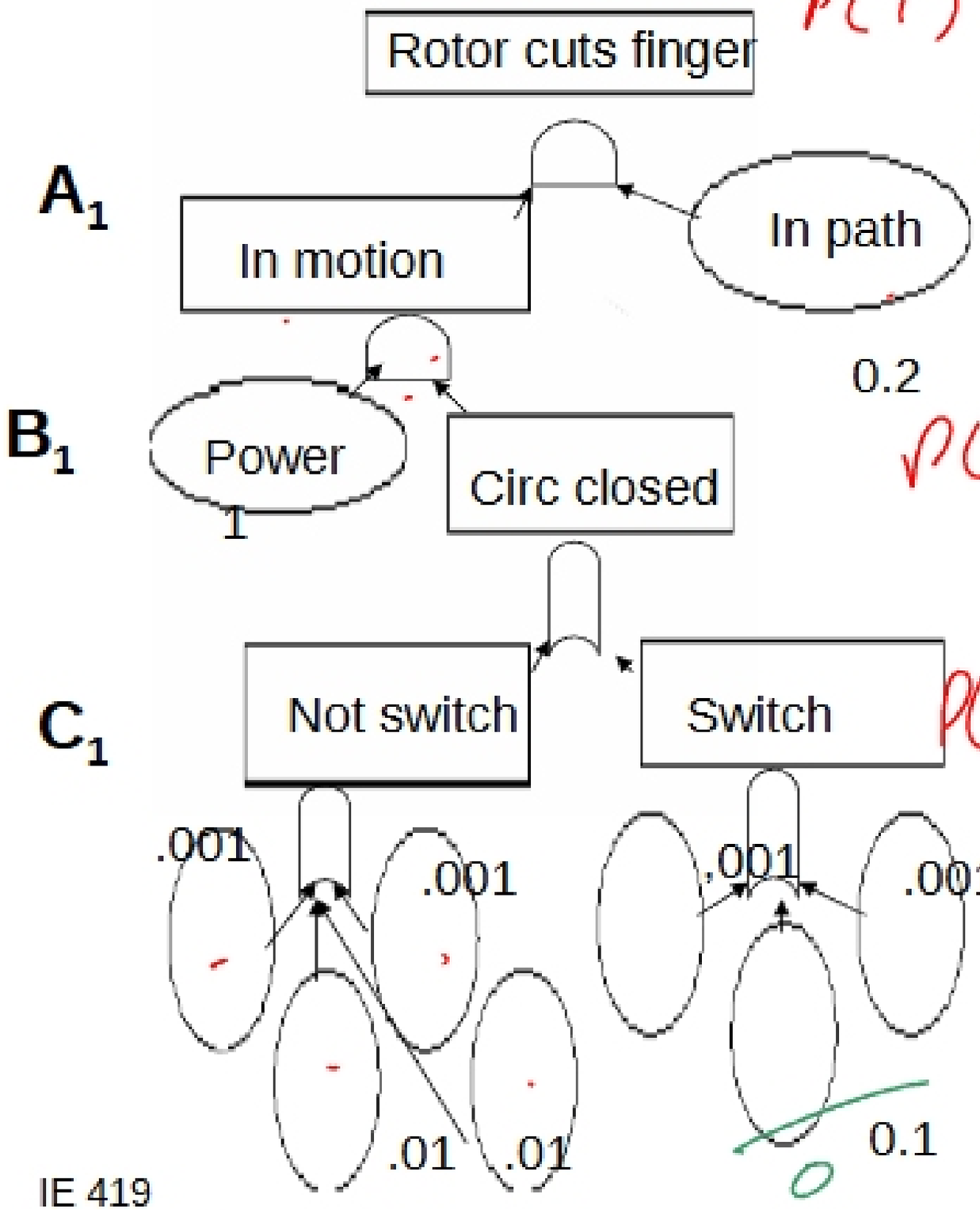
Class #27

Ex. #8 – FTA for Coffee Mill Injury

$P(T) = P(A_1)P(A_2) = .2(.12) = .024$



$P(A_1) = (1)(.12) = .12$

$P(B_2) = 1 - (1-.1)(1-.022) = .12$

$P(C_2) = 1 - (1-.001)^2(1-.1) = .1$

$1 - (1-.001)^2(1) = .002$

$P(C_1) = 1 - (1-.001)^2(1-.1)^2 = .022$

Ex. #9 - Cost-Benefit for Coffee Mill

.024 x $200 = $4.80

Alternative	Proba-bility	Cost	Criti-cality	Benefit	Cost / Benefit
1) Interlock – switch in cover					
2) Warning label					
3) Better QC					
4)					