Rawing Metrics



Link throughput [Between 2 modes]
Path throughput [Between while path]

-> Equally distribute Truffe

Netrork throughput [Callection of all the paths]

FTX- expected transmission count

Link ETX = Link Throughput]

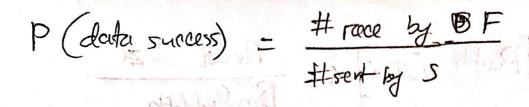
PROJE ETX = Z Link ETX

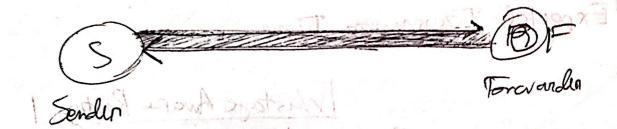
Successful During + Successful During + Successful ACK
Transmission Reception

P(TX sucass) = P (boda success) * P (ACK success)

Link ETX = 1/P(TX Surcoss)

P(data success) = forward belivery rections
P(ach success) = revenue belivery mation





[Can be calculated from previous history on by exchanging durning eachets] Remember Keywords Only

 $[last 100s] = \frac{90}{100} = (0.9)$ piggy booked by senden th

transmitting next packet.

P(ack) = #recers # sent F

Limitation -> Dummy Packet /5 mall link prober may not be as realistic as sending an actual-bly data packet.

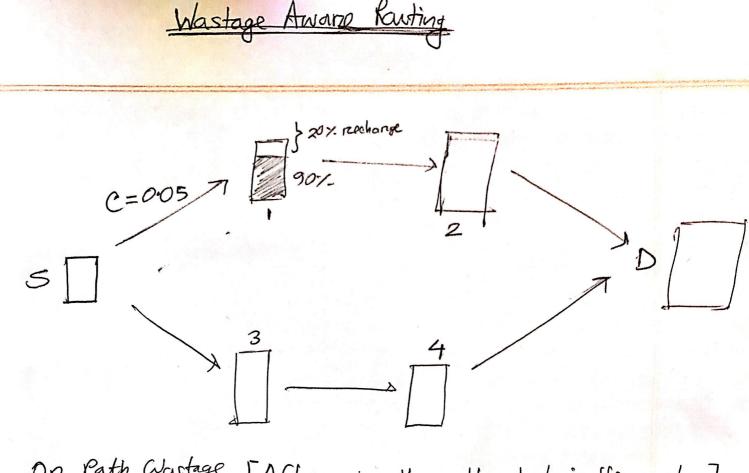
[Using previous_history is better]

ETX Limitation - doesn't consider bundwidth of link ETT = [Path ETX] X Packet Size
Bandwidth L'Expected Transmission Time Wastage Aware Rowling ! -> Consider the (battery) of the connected nodes, -> Energy Harring Senson Network > There is some probabily the / energy all rachange Energy Wastage of battery gets overchanged. [Reduce this crostage] 2 . wint = 1 size

month facility on order of by out or profes

[word of beging some 20 lever]

Wastage Aware Routing



On Path Wastage [After using the path, what is the wastage]
Off Path Wastage [The paths and nodes that aren't used,
is responsible for off path wastage] On Path Wartage

Best Path = On Path Wartage + Off Poth Wartage + Transmission Cost (minimum)

- i) [First add honvested energy to the current bottery level, then calculate off-path a astage]
- ii) [D Subtract the path cost and coloubte on-path wastage]
- iii) [Remembers to calente off path wastage of alternate paths]