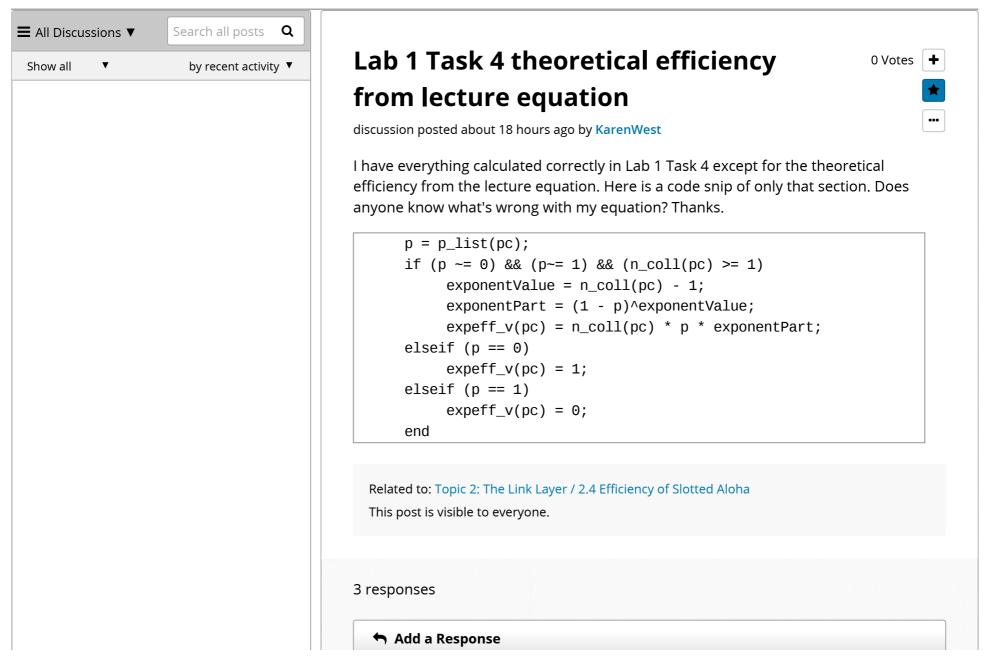
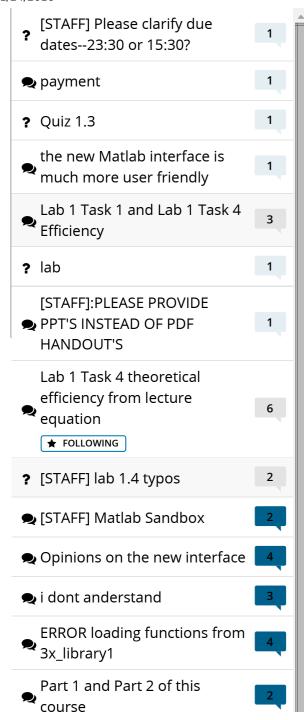
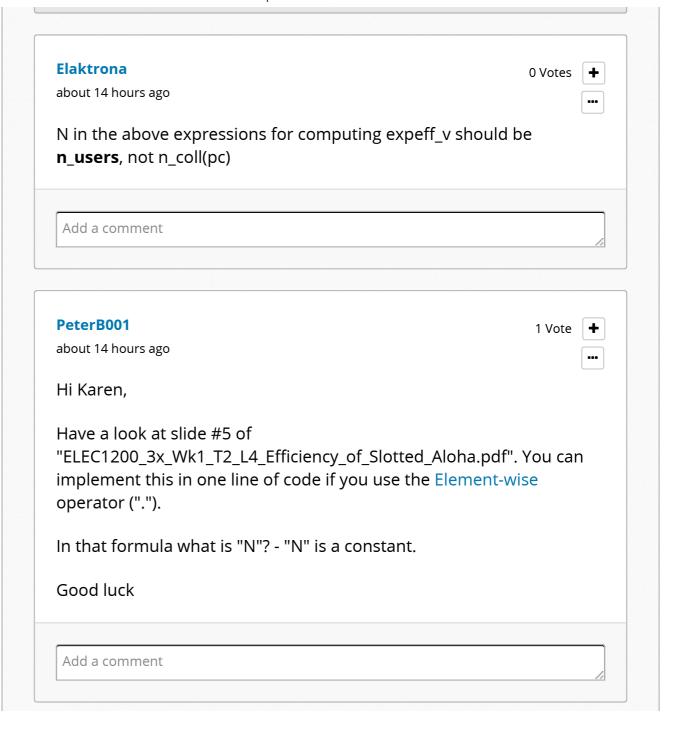
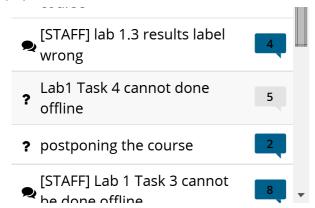


HKUSTx: ELEC1200.3x A System View of Communications: From Signals to Packets (Part 3)



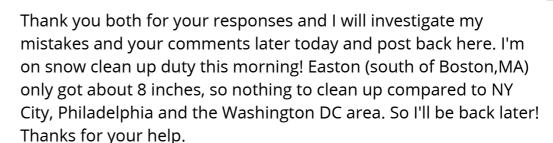






KarenWest

about 8 hours ago



I appreciate your comments that N is a constant, but I find I'm still confused with the formula, since I thought that N was the number of collisions for a given probability of successful transmission on slotted Aloha, not the total n users number. PC is the index within the p list of probabilities spaced apart in the list by 0.05 going from 0 to 1, so if n_coll(pc) is used, it's the number of collisions at that index during the transmission successes, failures, and empties that are counted for that probability iteration. Also, with the comment about using the "." to iterate over an array for an operator such as multiplication, I was not clear on how to use that here.

```
exponentValue = n_{coll}(pc) - 1;
exponentPart = (1 - p)^exponentValue;
expeff_v(pc) = n_coll(pc) * p * exponentPart;
```

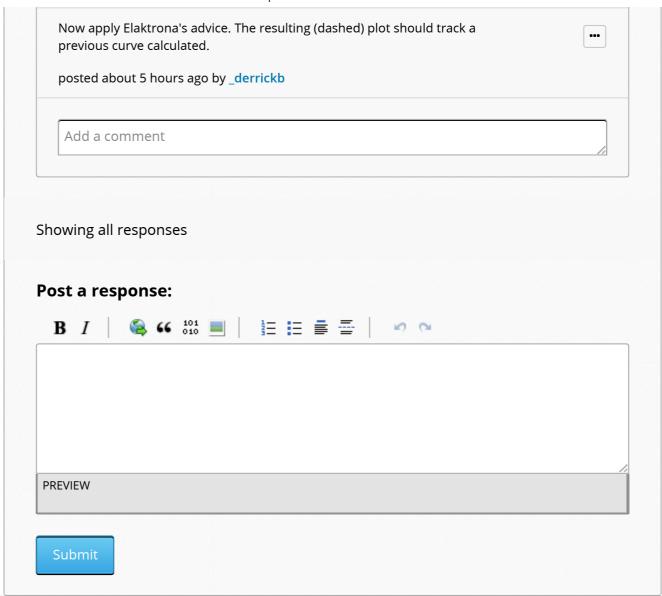
could be written instead in one line as (??)-- sorry --not that experienced with MATLAB, although I have used the element-wise operator in past versions of this class (parts 1 and 2) occasionally:

```
expeff_v = n_{coll} .* p_{list} .* (1 - p_{list}).^(n_{coll}-1)
```

Any more help is appreciated! ;-) Thanks.

posted about 8 hours ago by KarenWest

0 Votes





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