

Simple question on Shannon's 1948 paper

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Dear All,

I would appreciate someone pointing out the detailed logic underlying an equation in Shannon's famous 1948 paper on information theory.

I am interested in the second unnumbered equation in Part 1 of the paper:

$$N(t) = N(t-t_1) + N(t-t_2) + \dots N(t-t_n)$$

where $N(t)$ equals the number of sequences of symbols of total duration t , with sequence 1 having duration t_1 etc.

How do I see that the above equation does what it says it does, and what are the conditions on $N(t)$?

Thanks,

Inf.

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