Structured Electronic Design
Introduction to Frequency Compensation

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Design approach

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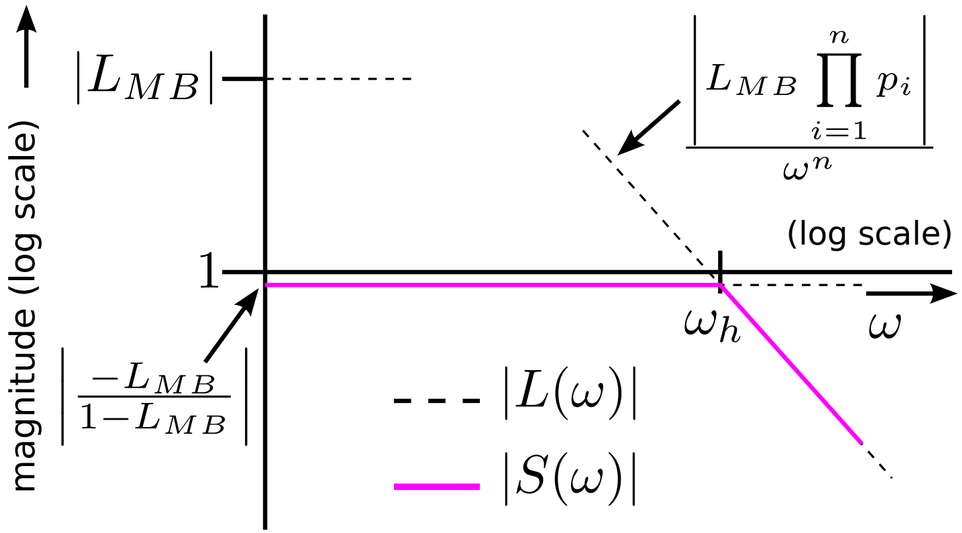

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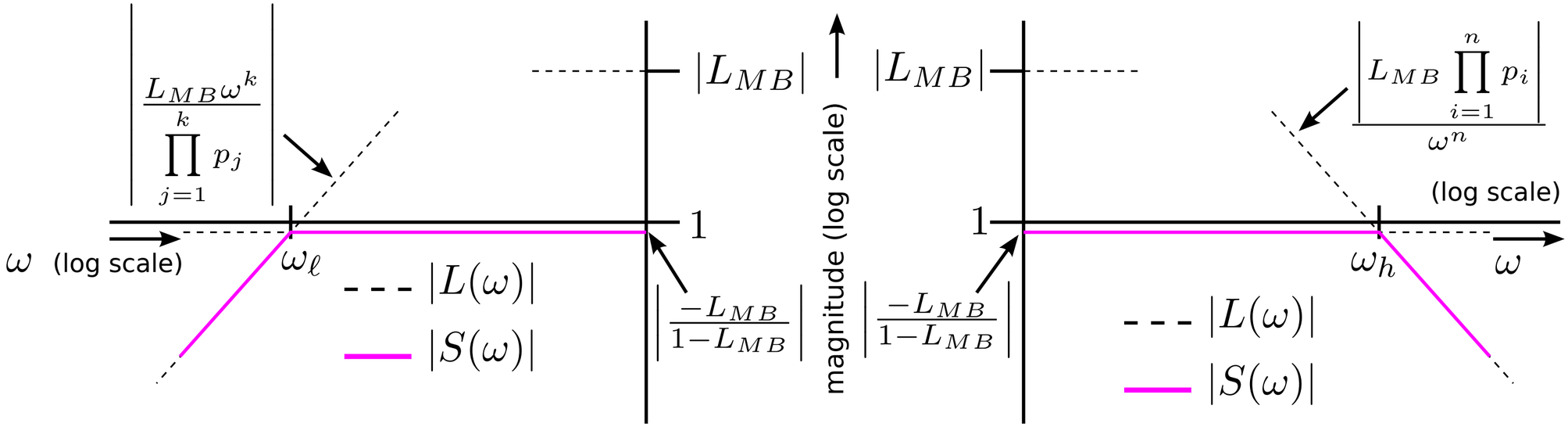

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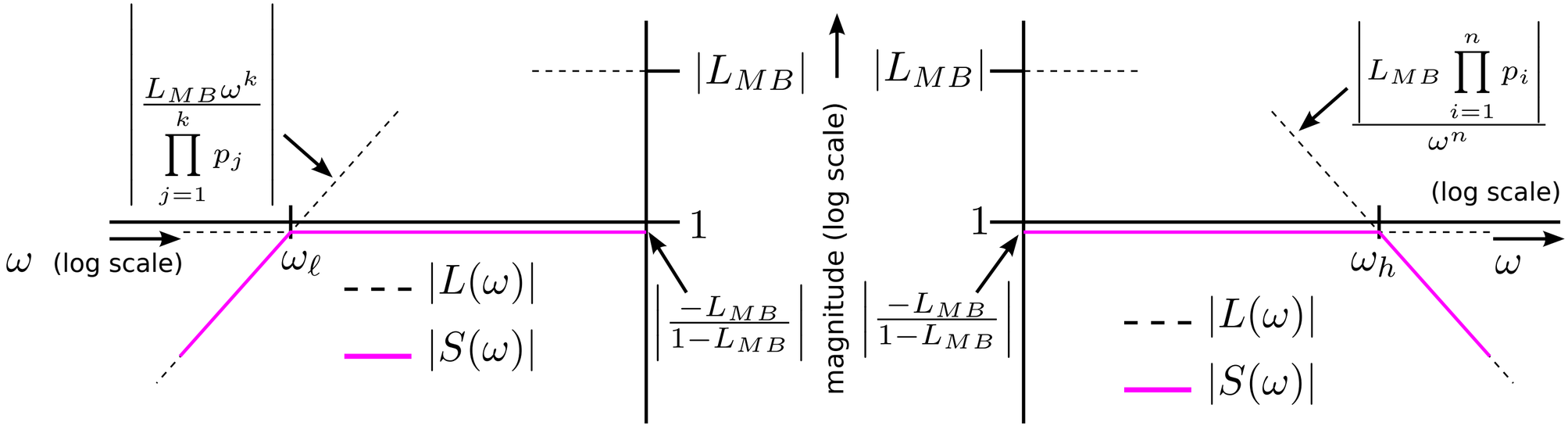

$$A_f(s) = \frac{A_i(s)}{\text{Ideal gain}}$$

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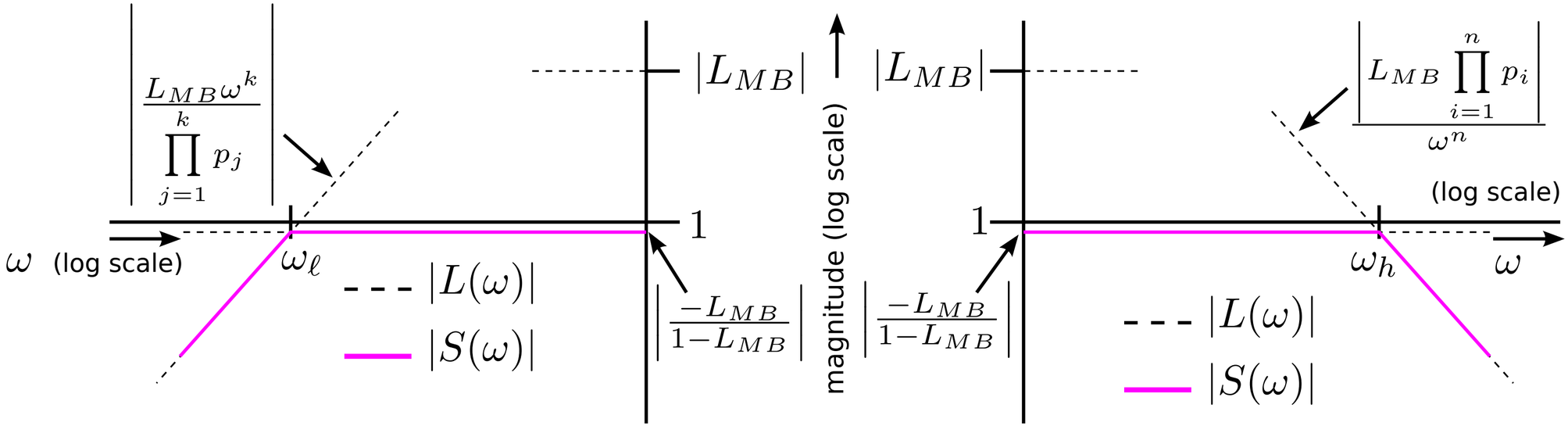

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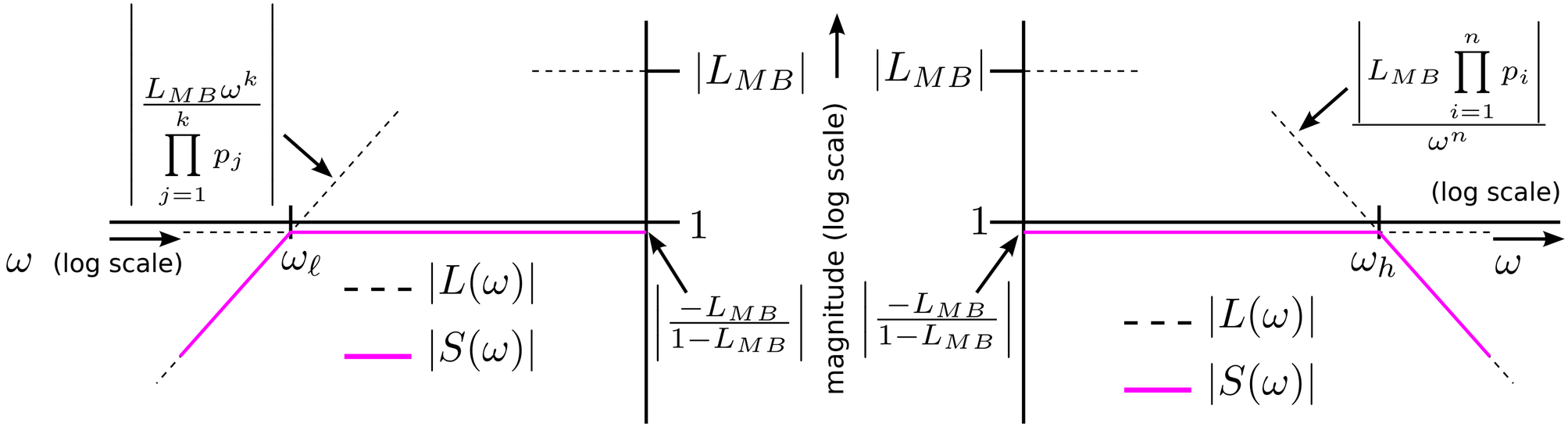

$$A_f(s) = \underbrace{A_i(s)}_{\text{Ideal gain}} \underbrace{\frac{-L_{MB}}{1-L_{MB}}}_{\text{midband accuracy}} \underbrace{\frac{b_k s^k}{1+b_1 s+b_2 s^2+\cdots b_k s^k}}_{\text{high-pass cut-off}}$$

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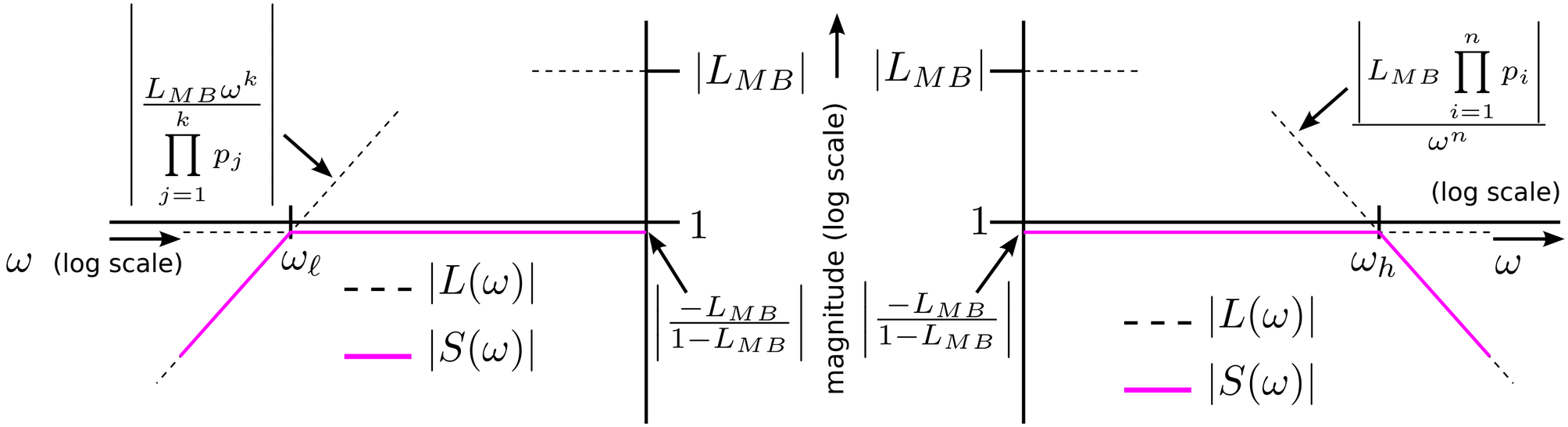

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