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Loop control is an essential area of electronics engineering that today's professionals need to master.

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In a purely linear feedback loop, fC is limited by cumulative phase lags in var ious system elements. These phase lags inevitably increase with frequency in a manner that often varies unpredictably. Compensation becomes impossible, forcing the designer to set fC at a fre quency where the phase lags are still manageable.

Control Loop Cookbook - TL.com

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