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INVESTIGATION OF DC-DC CONVERTER MODELING



Muhammad Usman Usman
Investigation of DC-DC
Converter Modeling
From the Perspective of Control and Input Filter
Influence



Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | From the Perspective of Control and Input-Filter Influence | Stability is a prime concern in any dc voltage regulation system. However, closed-loop stability is not always guaranteed if a low-pass filter is present at dc-dc converter input. In this thesis small-signal transfer functions based on averaged modeling techniques are exploited to systematically formulate some design rules to avoid instability. Further, averaged modeling techniques are evaluated in this way as an effective tool..

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- Authored by Iftikhar, Muhammad Usman
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