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Department Of EEE, Vignana Bharathi Institute Of Technology, Proddatur, Kadapa, A.P, India Abstract- Voltage Control And Fast Reactive Power Compensation Are Two Main Application Area Of Static Synchronous Compensator (STATCOM), Which Is A Shunt Connected Voltage Sour 1th, 2024A New Approach To PID Controller Design Of STATCOM Final(Proportional-Integral-Derivative) Controllers Was Reported In [19, 20]. In This Paper, The New PID Controller Design And Synthesis Approach For STATCOM Control Is Introduced Based On The Root Counting And Signature Theory [21, 22]. This Approach Can Find The Complete Set Of Stabilizing PID Controllers 1th, 2024.

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