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AN EXTENSION OF THE BINOMIAL THEOREM WITH APPLICATION TO STABILITY THEORY

of

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Mathematics

Abstract: We show how it is possible to put different stability types such as Routh-Hurwitz and Schur-Cohn on common grounds by establishing direct links between them. In the process, we obtain natural and elegant extensions of both Pascal's rule and the binomial theorem, which prove useful in establishing our main results. A M S subject classification: Primary 34D, Secondary 93D.

 [Keywords](#)
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Key words: Routh-Hurwitz Stability, Schur-Cohn Stability, Stability Theory, Control Theory.

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