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There have been advances in five distinct areas (i) Developing energy functions for structure preserving models which can incorporate non-linear load models (ii) Energy functions to include detailed model of the generating unit i. e. , the synchronous machine and the excitation system (iii) Reduced order energy functions for large scale power systems, the simplest being the single machine infinite bus system (iv)

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(1990). ENERGY FUNCTION ANALYSIS
FOR POWER SYSTEM STABILITY. Electric
Machines & Power Systems: Vol. 18, No.
2, pp. 209-210.

ENERGY FUNCTION ANALYSIS FOR POWER SYSTEM STABILITY: M. A ...

Key Method. An energy function is
proposed which differs from the
traditional one in that it includes
additional terms corresponding to the
energy stored in the loads and field
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stability region is derived based on this
energy function. Expand Abstract. View
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P is the average power output,

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Energy function analysis for power system stability by M. A. Pai, 1989, Kluwer Academic Publishers edition, in

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Spectral density - Wikipedia

Energy Function Analysis for Power System Stability. Springer, 1989. Cited

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in [1]. [3] T. Athay, R. Podmore, and S. Virmani, "A Practical Method for the Direct Analysis of Transient Stability," IEEE Transactions on Power Apparatus and Systems, vol. PAS-98, no. 2, March/April 1979, pp. 573-584. Cited in [1].

IEEE 39-Bus System - Illinois Center for a Smarter ...

Direct stability analysis of electric power systems using energy functions: Theory, applications, and perspective. P. IEEE 83, 11 (Nov. 1995), 1497--1529. Google Scholar; Joe H. Chow and Kwok W. Cheung. 1992. A toolbox for power system dynamics and control engineering education and research. IEEE Trans. Power Syst. 7, 4 (Nov. 1992), 1559--1564.

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62% of the variation in the building's energy use is explained by the linear model: Energy Use = 74.7 + 1898.36 *

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