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**Variable structure, bilinear and intelligent control with power system application.** (English)

[Zbl 0774.93017](#)

Systems, models and feedback: theory and applications, Proc. US-Italy Workshop in Honor of Prof. Antonio Ruberti, Capri/Italy 1992, Prog. Syst. Control Theory 12, 35-45 (1992).

[For the entire collection see [Zbl 0745.00051](#).]

Author's abstract: "A brief background on variable-structure and bilinear systems relates this research to the first U.S.-Italy seminar on this topic. Sliding-mode control of a flexible ac transmission system (FACTS) is analyzed and shown to be quite effective for a simplified single-machine infinite-but model (SMIB). For cases where system complexities may cause robustness problems, a bilinear self-tuning control and a neural-network based control are introduced".

Reviewer: [A.Perdon \(Ancona\)](#)

**MSC:**

[93B12](#) Variable structure systems

Cited in **1** Document

**Keywords:**

[sliding-mode control](#); [bilinear systems](#); [bilinear self-tuning control](#); [neural-network based control](#)

**Full Text:** [DOI](#)