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Estimation -- Ye Guo; Lang Tong; Wenchuan Wu; Hongbin Sun; Boming Zhang -- Chapter 13: Parallel Domain-Decomposition-Based Distributed State Estimation for Large-Scale Power Systems -- Hadis Karimipour; Venkata Dinavahi -- Chapter 14: Dishonest Gauss Newton method based power system state estimation on a GPU -- Md. Ashfaqur Rahman; and Ganesh Kumar Venayagamoorthy

Sommario/riassunto

"A static state estimator (SSE) is a collection of digital computer programs which convert telemetered data into a reliable estimate of the transmission network structure and state by accounting for small random metering-communication errors; uncertainties in system parameter values; bad data due to transients and meter-communication failures; and errors in the network structure due to faulty switch-circuit breaker status information. Failure of SSE at System Operators' facilities has been cited as one of the primary causes for some major blackouts over the two decades"--
