

Contents

1	Introduction	1
	Joe H. Chow	
2	Coherency in Power Systems	15
	Robin Podmore	
3	Slow Coherency and Aggregation	39
	Joe H. Chow	
4	Excitation System Aggregation	73
	Joe H. Chow and Ricardo J. Galarza	
5	A Hybrid Dynamic Equivalent Using ANN-Based Boundary Matching Technique	91
	Vijay Vittal and Feng Ma	
6	Krylov Subspace and Balanced Truncation Methods for Power System Model Reduction	119
	Shanshan Liu, Peter W. Sauer, Dimitrios Chaniotis and M. A. Pai	
7	Reduction of Large Power System Models: A Case Study	143
	Kip Morison and Lei Wang	
8	Measurement-Based Methods for Model Reduction of Power Systems Using Synchrophasors	159
	Aranya Chakraborty and J. Chow	
9	Selective Modal Analysis	199
	Luis Rouco, F. L. Pagola, George C. Verghese and Ignacio J. Pérez-Arriaga	

10 Interarea Mode Analysis for Large Power Systems Using Synchrophasor Data	259
Luigi Vanfretti, Yuwa Chompoobutrgool and Joe H. Chow	
Index	297