

SPECIAL PUBLICATIONS, TECHNICAL BROCHURES, BOOKS, PANEL SESSIONS, STANDARDS, ETC. RELATED TO FACTS CONTROLLERS, WITH EMPHASIS ON IEEE PES AND CIGRE PUBLICATIONS

1995

- IEEE PES and CIGRE FACTS Working Group, E. Larsen and D. Torgerson, Co-Chairs, "FACTS Overview," IEEE PES Special Publication 95-TP-108, 1995.

1996

- IEEE PES FACTS Applications Task Force of the FACTS Working Group of the DC and FACTS Subcommittee, F. Sener, Chair, "FACTS Applications," IEEE PES Special Publication 96-TP-116-0, 1996.
- CIGRE Task Force 38.01.06 on Load Flow Control, D. Povh, Convenor, "Load Flow Control In High Voltage Power Systems Using FACTS Controllers," CIGRE Technical Brochure No. 51, January 1996.
- CIGRE Task Force 38.01.07 on Power System Oscillations, J. Paserba, Convenor, "Analysis and Control of Power System Oscillations," CIGRE Technical Brochure No. 111, December 1996. [Emphasis on Chapter 5 Application of Power Electronic Equipment to Damp Oscillations]

1997

- CIGRE Working Group 14.17 on Semiconductor Power Devices, P. Lips, Convenor, "Semiconductor Power Devices for Use in HVDC and FACTS Controllers," CIGRE Technical Brochure No. 112, April 1997.
- IEEE PES FACTS Terms and Definitions Task Force of the FACTS Working Group of the DC and FACTS Subcommittee, A. Edris, Chair, "Proposed Terms and Definitions for Flexible AC Transmission Systems (FACTS), IEEE PES Transactions on Power Delivery, October 1997, pp. 1848-1853. (Paper)
- CIGRE Working Group 14.18 on Thyristor Controlled Series Capacitors and Reactors, D. Torgerson, Convenor, "Thyristor Controlled Series Compensation," CIGRE Technical Brochure 123, December 1997.

1998

- IEEE PES Working Group 15.05.07 on HVDC and FACTS Bibliography and Records of the HVDC and FACTS Subcommittee of the T&D Committee "An Annotated Bibliography of HVDC Transmission and FACTS Devices 1996-1997" URL <http://www.transmission.bpa.gov/tblib/publications/pubmenu.htm>

1999

- CIGRE Working Group 14.19 on STATCOM, I. Erinmez, Convenor. "Static Synchronous Compensator (STATCOM)" CIGRE Technical Brochure No. 144, August 1999.

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- CIGRE Task Force 38.01.08 on Modeling of Power Electronic Equipment, P. Therond, Convenor. "Modeling of Power Electronic Equipment (FACTS) in Load Flow and Stability Programs," CIGRE Technical Brochure No. 145, August 1999.
- CIGRE Working Group 14.29 on Coordination of Controls of Multi-FACTS, M. Szechtman, Convenor, "Coordination of Controls of Multiple FACTS/HVDC Links in the Same System," CIGRE Technical Brochure No. 149, December 1999.
- IEEE PES Power Electronics Task Force of the Modeling and Analysis of System Transients Working Group, K.K. Sen and L. Tang, Co-Chairs, "Modeling Guidelines for Power Electronics in Electric Power Engineering Applications". Section 2 of IEEE PES Special Publication 99TP-133-0, 1999.

2000

- CIGRE Working Group 14.27 on Unified Power Flow Controller, P. Therond, Convenor, "Unified Power Flow Controller (UPFC)," CIGRE Technical Brochure No. 160, 2000.

2001

- CIGRE Joint Working 14/37/38/39-24 on FACTS Technology for Open Access, Convenor, M. Dwek, "FACTS Technology for Open Access," CIGRE Technical Brochure No. 183, 2001.

2002

- CIGRE Working 14.31 on Custom Power, "Custom Power – State of the Art," CIGRE Technical Brochure No. 205, 2002.

2003

- CIGRE Working B4.19 on STATCOM, "Static Synchronous Compensator (STATCOM) for Arc Furnace and Flicker Compensation," CIGRE Technical Brochure No. 237, 2003.

2004

- IEEE PES Working Group on Power Electronic Building Blocks, Chair: N. Hingorani, "Power Electronic Building Block (PEBB) Concepts," IEEE PES Special Publication 04TP170, 2004.

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- CIGRE Working B4.35 on Thyristor Controlled Voltage Regulators, “Thyristor Controlled Voltage Regulators, Parts 1 and 2,” CIGRE Technical Brochure No. 242, 2004.

2005

- IEEE PES, “Tutorial Course Applications of Power Electronics to Power Distribution Systems,” IEEE PES Special Publication 05TP176, 2005.
- CIGRE Working B4.37 on VSC Transmission, “VSC Transmission,” CIGRE Technical Brochure No. 269, 2005.
- CIGRE Working B4.33 on FACTS and HVDC for Distribution Systems, “FACTS and HVDC for Distribution Systems,” CIGRE Technical Brochure No. 280, 2005.

2006

- IEEE PES Working Group 15.05.13 on Transmission System Application Requirements for FACTS Controllers, DC and FACTS Subcommittee of the T&D Committee, M. Henderson, Chair. “Transmission System Applications Requirements for FACTS Controllers,” IEEE PES Special Publication 06TP178, 2006.

2007

- IEEE PES Working Group on Power Grid Blackouts, Power System Dynamic Performance Committee, P. Kundur, C. Taylor, Co-Chairs, P. Pourbeik, Secretary. “Blackout Experiences and Lessons, Best Practices for System Dynamic Performance, and the Role of New Technologies,” IEEE PES Special Publication 07TP190, 2007. [Emphasis on Chapter 3 on Some New and Existing Technologies to Improve Power System Dynamic Performance].
- IEEE PES Working Group I5 on Voltage-Sourced Converters, Substations Committee. B. Mehraban, Chair. “Voltage Sourced Converter (VSC) Applications in Power Transmission,” IEEE PES Special Publication TP200, 2007.

2008-to-date

- CIGRE Working B4.39 on Integration of Large Scale Wind Power Using HVDC and Power Electronics, B. Anderson, Convenor, “Integration of Large Scale Wind Power Using HVDC and Power Electronics,” CIGRE Technical Brochure Under Review, 2008.
- CIGRE Working Group B4.40 on Static Synchronous Series Compensators (SSSC), A. Edris, Convenor, “Static Synchronous Series Compensators,” CIGRE Technical Brochure Under Review, 2008.

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Partial List of FACTS Books

- N. Hingorani, L. Gyugyi, Understanding FACTS: Concepts and Technology of Flexible AC Transmission Systems, IEEE PES Press, New York, NY, 2000
- R. Mohan Mathur; Rajiv K. Varma, Thyristor-Based FACTS Controllers for Electrical Transmission Systems, John Wiley & Sons, Inc., 2002
- Yong Hua Song, Allan T. Johns(editors), Flexible AC Transmission Systems (FACTS), Inspec/IEE Press, 1999.
- Xiao-Ping Zhang, Christian Rehtanz, Bikash Pal, Flexible AC Transmission Systems: Modelling and Control, Springer, 2006.

IEEE PES Standards and Guidelines on FACTS

- IEEE PES Std 1031-2000 (Revision of IEEE PES Std 1031-1991), "IEEE PES Guide for the Functional Specification of Transmission Static Var Compensators"
- IEEE PES Std 1303-1994, IEEE PES Guide for Static VAr Compensator Field Tests"
- IEEE PES Std 1534-2002, "IEEE PES Recommended Practice for Specifying Thyristor-Controlled Series Capacitors"

Partial List of FACTS Conference Proceedings

- Proceedings of the EPRI FACTS Conference 1, Cincinnati, Ohio, November 1990.
- Proceedings of the EPRI FACTS Conference 2, Boston, Massachusetts, May 1992.
- Proceedings of the EPRI Conference on Flexible AC Transmission Systems, Baltimore, Maryland, October 1994.
- Proceedings of the CIGRE SC 14/37/38 Symposium on Power Electronic Equipment in Electric Power Systems, Tokyo Japan, May 1995.
- Proceedings of the EPRI Conference on the Future of Power Delivery, Washington DC, April 1996.
- NOTE: There have been numerous EPRI sponsored "FACTS User Group Meetings" since 1998 that have resulted in some documentation that is not formally published nor readily available.

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Partial List of IEEE PES Panel Sessions

- 1999: Panel Session on “FACTS Controllers: Applications and Operational Experience,” Proceedings of the IEEE PES Summer Power Meeting, Edmonton, Alberta, July 1999. Sponsored by the T&D and Substations Committees.
- 2000: Panel Session on “Modeling, Simulation, and Applications of FACTS Controllers in Angle and Voltage Stability Studies,” (All-Day), Proceedings of the IEEE PES Power Engineering Society 2000 Winter Meeting, Singapore, January 2000. Sponsored by the Power System Dynamic Performance Committee.
- 2001: Panel Session on “Simulation of FACTS and Custom-Power Controllers,” Proceedings of the IEEE PES Power Engineering Society 2001 Winter Meeting, Columbus, Ohio, January 2001. Sponsored by the T&D Committee.
- 2001: Panel Session on “FACTS Applications To Improve Power System Dynamic Performance,” Proceedings of the 2001 T&D Conference and Exposition Summer Meeting, Atlanta, GA, Sept. 2001. Sponsored by the Power System Dynamic Performance Committee.
- 2002: Panel Session on “Digital Simulation of FACTS and Custom-Power Controllers,” Proceedings of the IEEE PES Power Engineering Society 2002 Winter Meeting, New York, New York, January 2002. Sponsored by the T&D Committee.
- 2002: Special Technical Session/Panel Session on “Basics of Var Technology,” Proceedings of the IEEE PES Power Engineering Society 2002 Winter Meeting, New York, New York, January 2002. Sponsored by the T&D Committee (DC and FACTS Education WG).
- 2002: Panel Session on “Power System Stability Controls Using Power Electronic Devices,” Proceedings of the IEEE PES Summer Power Meeting, Chicago, Illinois, July 2002. Sponsored by the Power System Dynamic Performance Committee.
- 2002: Panel Session on “FACTS Technologies: Experiences of the Past Decade and Developments for the 21st Century in Asia and the World,” Proceedings of the IEEE PES T&D-Asia Conference and Exposition, Yokohama, Japan, October 2002. Sponsored by the Local Organizing Committee.
- 2003: Panel Session on “FACTS VSC Applications For Improving Power System Performance,” Proceedings of the IEEE PES General Meeting, Toronto, Canada, July 2003. Sponsored by the T&D and Substations Committees.
- 2003: Panel Session on “SVC Refurbishment & Life Extension,” Proceedings of the IEEE PES General Meeting, Toronto, Canada, July 2003. Sponsored by the Substations Committee.

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- 2003: Panel Session on “FACTS Applications To Improve Power System Dynamic Performance,” Proceeding of the 2003 T&D Conference and Exposition Meeting, Dallas, TX, Sept. 2003. Sponsored by the Power System Dynamic Performance Committee.
- 2003: Special Technical Session on “FACTS Fundamentals,” Proceedings of the IEEE PES T&D Conference and Exposition, Dallas, Texas, September 2003. Sponsored by the T&D Committee (DC and FACTS Education WG).
- 2004: Special Technical Session on “FACTS Fundamentals,” Proceedings of the IEEE PES General Meeting, Denver, Colorado, June 2004. Sponsored by the T&D Committee (DC and FACTS Education WG), (updated version of a similar session presented in Dallas 2003).
- 2006: Panel Session on “FACTS/Power Electronic Applications To Improve Power System Dynamic Performance,” Proceeding of the 2005/2006 T&D Conference and Exposition Meeting, Dallas, TX, April 2006. Sponsored by the Power System Dynamic Performance Committee.
- 2006: Special Technical Session on “Reactive Power,” Proceeding of the 2005/2006 T&D Conference and Exposition Meeting, Dallas, TX, April 2006. Sponsored by the T&D Committee (DC and FACTS Education WG).
- 2006: Panel Session on “FACTS/Power Electronic Applications To Improve Power System Dynamic Performance,” Proceeding of the 2006 Power Systems Conference and Exposition (PSCE), Atlanta, GA, Oct./Nov. 2006. Sponsored by the Power System Dynamic Performance Committee.
- 2007: Panel Session on “Planning and Implementing FACTS Controllers for Improving Power System Performance,” Proceedings of the IEEE PES General Meeting, Tampa, Florida, June 2007. Sponsored by the T&D Committee.
- 2008: Panel Session on “FACTS/Power Electronic Applications To Improve Power System Dynamic Performance,” Proceeding of the 2008 T&D Conference and Exposition Meeting, Chicago, IL, April 2008. Sponsored by the Power System Dynamic Performance Committee.

Partial List Ongoing CIGRE and IEEE PES WG/TF Work

- IEEE PES Working Group I1 on Power Electronic Equipment, High Voltage Power Electronics Stations Subcommittee (I0) of the Substations Committee.
- IEEE PES Working Group I2 on Thyristor Controlled Series Capacitors, High Voltage Power Electronics Stations Subcommittee (I0) of the Substations Committee.

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- IEEE PES Working Group I4 on Static Var Compensators, High Voltage Power Electronics Stations Subcommittee (I0) of the Substations Committee. H. Bilodeau, Chair.
- IEEE PES Working Group I5 on Voltage Sourced Converters, High Voltage Power Electronics Stations Subcommittee (I0) of the Substations Committee. B Mehraban, Chair.
- IEEE PES Working Group I8 on Power Electronics Building Block Concepts, High Voltage Power Electronics Stations Subcommittee (I0) of the Substations Committee., N. Hingorani, Chair.
- IEEE PES Working Group 15.05.02- Dynamic Performance and Modeling of HVDC Systems and Power Electronics for Transmission Systems, HVDC and FACTS Subcommittee of the T&D Committee. R. Adapa, Chair.
- IEEE PES Working Group 15.05.08- HVDC and FACTS Economics and Operating Strategies, HVDC and FACTS Subcommittee of the T&D Committee. M. Reynolds, Chair.
- IEEE PES Working Group 15.05.14- HVDC and FACTS Devices Education, HVDC and FACTS Subcommittee of the T&D Committee. B. Johnson, Chair.
- IEEE PES Working Group 15.05.15- Use of Power Electronics in Major Grid for Generation Requirements, HVDC and FACTS Subcommittee of the T&D Committee. G. Jooz, Chair.
- IEEE PES Working Group 15.05.17- HVDC and FACTS Bibliography, HVDC and FACTS Subcommittee of the T&D Committee. R. Varma, Chair.
- CIGRE WG B4.38, Simulation of HVDC and FACTS, D. Retzmann, Convenor
- CIGRE WG B4.49, Performance Evaluation and Applications Review of Existing Thyristor Control Series Compensation Devices -TCSC, S. Nilsson, Convenor

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