

Scientific Papers, Posters and Presentations

from

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1. Biechl, H.: Untersuchung des transienten Betriebsverhaltens eines Stromrichter-motors mit massiveisernem Rotor und 2*3-strängiger Statorwicklung mit Hilfe numerischer Feldberechnung (oral presentation). 3. DFG-Kolloquium zum Schwerpunktprogramm „Neue Systeme der Elektromechanischen Energiewandlung“. January 12-13, 1987, Technical University Munich, Germany.
2. Biechl, H.: Zweidimensionale numerische Feldberechnung zur Bestimmung des stationären und transienten Betriebsverhaltens von 2*3-strängigen Stromrichter-motoren (oral presentation and paper). 5. Wintertagung über angewandte numerische Magnetfeldberechnung. February 10-12, 1988, Technical University Chemnitz, Germany.
3. Biechl, H.; Bischof, H.: Meßtechnische Ermittlung von Systemübertragungsfunktionen aus transienten Übergangsverläufen von Systemanregung und -antwort - Anwendung auf Synchronmaschinen (paper). etz Archiv 10 (February 1988) 47-51.
4. Biechl, H.: Transientes Betriebsverhalten eines 2*3-strängigen Stromrichtermotors mit Massivläufer. Teil 1: Mathematische Modellbildung der 2*3-strängigen Synchronmaschine mit Massivläufer (paper). Archiv für Elektrotechnik 71 (1988) 323-335, Springer-Verlag.
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unter Einbezug der Regelung (paper). Archiv für Elektrotechnik 72 (1989) 205-217, Springer-Verlag.

8. Biechl, H.; Lorenzen, H.W.; Lubasch, R.; Prenner, H.: Transient behaviour of a current-source inverter-fed synchronous motor with a solid rotor (oral presentation and paper). IEEE (Power Engineering Society), January 29 – February 3, 1989, New York, USA; IEEE Transactions on Energy Conversion, September 1989, Volume 4, Number 3, p. 509-17 (ISSN 0885-8969).
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10. Biechl, H.; Schröder, D.; Engl, W.; Prenner, H.: The influence of eddy currents induced in the solid rotor iron of synchronous machines at transient conditions (oral presentation and paper). International Conference on Electrical Machines (ICEM), August 13-15, 1990, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA.
11. Biechl, H.: Digitale Simulation von Stromrichter-motoren (oral presentation and paper). 11. Internationale Fachtagung „Industrielle Automatisierung - Automatisierte Antriebe“. February 12-14, 1991, Technical University Chemnitz, Germany.
12. Biechl, H.: Entwicklungsmöglichkeiten der stromwirtschaftlichen Zusammenarbeit zwischen West- und Osteuropa (oral presentation and paper). X. Wissenschaftliche Konferenz für Energiewirtschaft, June 17-19, 1992, Technische Hochschule Zittau, Germany.
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17. Biechl, H.; Lorenzen, H.W.; Potoradi, D.: Mathematical modelling, simulation and optimization of an asynchronous exciter for inverter-fed synchronous machines (oral presentation and paper). 6th International Conference, Exhibition on Optimization of Electrical and Electronic Equipment (OPTIM 98), May 14-15, 1998, Brasov, Romania.
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23. Isaac, I.; Areiza, J.; Gonzalez, J.; Biechl, H.: Long-term Energetic Analysis for Electric Expansion Planning Under High Wind Power Penetration Scenarios in Colombia

- and Neighboring Countries (paper). 7th European Energy Markets Conference – EEM10-, June 23-25, 2010, Madrid, Spain.
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26. Rahmoun, A.; Biechl, H.: Parameters Identification of Equivalent Circuit Diagrams for Li-Ion Batteries (oral presentation and paper). 11th International Symposium “Topical Problems in the field of Electrical Power Engineering”, January, 2012, Pärnu, Estonia.
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33. Armstorfer, A.; Biechl, H.; Alt, B.; Müller, H.; Sollacher, R.; Most, D.; Szabo, A.; Köberle, R.; Fiedeldey, M.: Operation of Battery Storage Systems in Smart Grids (oral presentation and paper). ETG-Congress 2013, Berlin, Germany.
34. Rahmoun, A.; Loske, M.; Rosin, A.: "Determination of the Impedance of Lithium-Ion Batteries Using Methods of Digital Signal Processing (poster and paper)," Energy Procedia, vol. 46, pp. 204–213, January, 2014.
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40. Nauman, B.; Rahmoun, A.; Armstorfer, A.; Rosin, A.; Biechl, H.: Determination methods for controller parameter of back-to-back converters in electric power grids (oral presentation and paper), PQ2016, Tallinn, Estonia, August 2016.

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42. Stefan Übermasser; Christoph Groiss; Alfred Einfalt; Nicolas Thie; Maria Vasconcelos; Jorge Helguero; Helmuth Biechl; Hannu Laaksonen; Petri Hovila: Requirements for Coordinated Ancillary Services Covering Different Voltage Levels (oral presentation, poster and paper), CIRED 2017, Glasgow, Scotland, June 2017.
43. Armstorfer, A.; Beg, N.; Rahmoun, A.; Rosin, A.; Biechl, H.: Mathematical Modeling and Evaluation of a Microgrid Demonstrator in Island Mode (oral presentation and paper), in Conference on Sustainable Energy Supply and Energy Storage Systems NEIS 2017, Hamburg, Germany, September 2017.
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55. Helguero, J.; Galeano, S.; Rosin, A.; Biechl, H.: Analysis and Optimization of the Provision of Reactive Power by Nanogrids in a Low Voltage Network (oral presentation and paper), in 19th International Symposium Topical Problems in the Field of Electrical and Power Engineering and Doctoral School of Energy and Geotechnology III 2020, Estonia, January 2020.
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