

## WISSENSCHAFTLICHE VERÖFFENTLICHUNGEN UND VORTRÄGE

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### Beiträge in Fachzeitschriften

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- T. Stolzke, A. Stadler, C. Gulden, (2014)  
*InDUR Nonlinear and SiFe - Special AC Filter and DC Power Inductors based on State-of-the-Art Powder Materials and Silicon Iron Steel*  
Bodo's Power Systems Magazine, Nov. 2014, p. 56-59
- S. Herzog, A. Stadler, C. Gulden, (2014)  
*MaxFlux – Magnetically Biased Inductor - Utilising the core to its fullest!*  
Bodo's Power Systems Magazine, June 2014, p. 30-34
- A. Stadler, C. Gulden, (2014)  
*InDUR - New Power Inductors with Minimum Size and Weight for DC and AC Filter Applications*  
Bodo's Power Systems Magazine, Jan. 2014, p. 36-38
- A. Stadler, (2013)  
*The Copper Losses of Gapped Inductors with Litz-Wire Windings*  
Journal of Microelectronics, Elec. Components and Materials – Informacije MIDEM, vol. 43, no. 4, 2013
- A. Stadler, R. Huber, T. Stolzke, C. Gulden, (2013)  
*Analytical Calculation of Copper Losses in Litz-Wire Windings of Gapped Inductors*  
IEEE Transactions on Magnetics, vol. 50, no. 2, Feb. 2014
- A. Stadler, T. Stolzke, C. Gulden, (2013)  
*Nonlinear Power Inductors for Large Current Crest Factors*  
Journal of Engineering, Hindawi Publishing Corporation, vol. 2013, id. 687581, p. 1-6
- H. Roßmanith, M. Albach, J. Fischer, A. Stadler, (2012)  
*Improved Characterization of the Magnetic Properties of Hexagonally Packed Wires*  
EPE Journal, vol. 22, no. 4, 2012
- A. Stadler, (2011)  
*A Generalized Model for Rate-Independent Ferromagnetic Hysteresis Phenomena*  
Journal of Physics: Conference Series, vol. 268, no. 1, 2011
- M. Albach, M. Döbrönti, H. Roßmanith, D. Exner, A. Stadler, (2010)  
*Wicklungsverluste in Spulen und Trafos aus HF-Litze*  
Elektronik Industrie, Okt. 2010, S. 32-34, Hüthig Verlag
- M. Albach, J. Patz, H. Roßmanith, D. Exner, A. Stadler, (2010)  
*Optimale Wicklung = optimaler Wirkungsgrad, Vergleich der Verluste in Litzen und Runddrähten*  
Elektronik power, Ausgabe 04/2010, S. 38-77
- A. Stadler, (2010)  
*Simulation und Messung der Kernverluste weichmagnetischer Materialien: Ein praktisches Verfahren zur Berechnung der Kernverluste bei beliebigen Kernformen mit Hilfe der Finite Elemente Methode (FEM)*  
Südwestdeutscher Verlag für Hochschulschriften, März 2010, ISBN 3838115058
- A. Stadler, M. Albach, A. Lindner, (2010)  
*A Practical Method to Measure Electrical AC Conductivity of MnZn Ferrites Using Conventional Toroids*  
IEEE Transactions on Magnetics, vol. 46, no. 2, Feb. 2010
- M. Albach, A. Stadler, M. Spang, (2007)  
*The Influence of Ferrite Characteristics on the Inductance of Coils With Rod Cores*  
IEEE Transactions on Magnetics, vol. 43, no.6, June 2007, p. 2618-2620

A. Stadler, M. Albach, T. Dürbaum, (2006)  
*Optimum EMC Design of Flyback and Load Resonant Converters Using Toroids with Air Gaps*  
Electrical Power Quality and Utilisation Journal EPQU 2005, vol. XI, no. 2, p. 15-22

A. Stadler, M. Albach, (2006)  
*The Influence of the Winding Layout on the Core Losses and the Leakage Inductance in High Frequency Transformers*, IEEE Transactions on Magnetics, vol. 42, no. 4, Apr. 2006, p. 735-738

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## Beiträge auf internationalen Konferenzen und Seminaren

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L. Reißenweber, A. Stadler, (2019)  
*Extension of a Calculation Model based on the Pi Line Theory for Transient Voltage Distribution in Inductors by Complex Permittivity and Frequency-Depending Complex Permeability*  
21<sup>st</sup> Conf. on Power Electronics and Appl. EPE'19-ECCE Europe, Sept. 2019, Genova, Italy, paper 531

M. Albach, A. Stadler, (2019)  
ECPE Cluster-Schulung „Induktivitäten in der Leistungselektronik“, Juli 2019, Nürnberg, Deutschland

A. Stadler, (2019)  
ECPE Cluster-Seminar „Power Factor Correction (PFC) und Active Frontend – Schaltungen Bauelemente, Regelung“, Mai 2019, Augsburg, Deutschland

A. Stadler, (2019)  
*14<sup>th</sup> Seminar “Power Electronics for Photovoltaics and Battery Systems”: Power Inductors*  
28<sup>th</sup> Intersolar Europe Conference, May 2019, Munich, Germany

L. Reißenweber, A. Stadler, (2019)  
*Calculation Model for the Transient Voltage Distribution in Inductor Windings Effected by High dv/dt*  
PCIM Conference, May 2019, Nuremberg, Germany

A. Stadler, (2019)  
*The Role of Soft Magnetic Materials for Improved Power Transmission in High Power Applications*  
Annual Meeting of the ZVEI Transformers and Power Supplies Division 2019, March 2019, Nuremberg, Germany

A. Stadler, (2019)  
*Requirements for the Inductive Components*  
ECPE Wide Bandgap Systems Integration User Training, Feb. 2019, Graz, Austria

L. Reißenweber, A. Stadler, (2018)  
*Induktive Bauelemente für zukünftige Mittelspannungs-Leistungselektronik*  
Treffen des Industriearbeitskreises Mittelspannungs-Leistungselektronik, Sept. 2018, Berlin, Deutschland

M. Albach, A. Stadler, (2018)  
ECPE Cluster-Schulung „Induktivitäten in der Leistungselektronik“, Juli 2018, Nürnberg, Deutschland

A. Stadler, (2018)  
*Requirements for the Inductive Components*  
ECPE Wide Bandgap Systems Integration User Training, June 2018, Bremen, Germany

A. Stadler, (2018)  
*The Role of Soft Magnetic Materials for Improved Power Transmission in High Power Applications*  
8<sup>th</sup> International Conference on Magnetism and Metallurgy WMM18, June 2018, Dresden, Germany

A. Stadler, (2018)  
*13<sup>th</sup> Seminar “Power Electronics for Photovoltaics and Battery Systems”: Power Inductors*  
27<sup>th</sup> Intersolar Europe Conference, June 2018, Munich, Germany

A. Stadler, (2017)

*Requirements for the Inductive Components*

ECPE Tutorial: *Wide Bandgap User Training*, Nov. 2017, Barcelona, Spain

A. Stadler, (2017)

*Induktive Bauelemente und deren Herausforderungen für die MS-Leistungselektronik bei Industrie und Bahn*

Symposium Mittelspannungs-Leistungselektronik, Sept. 2017, Nürnberg, Deutschland

M. Albach, A. Stadler, (2017)

ECPE Cluster-Schulung „Induktivitäten in der Leistungselektronik“, Juli 2017, Nürnberg, Deutschland

A. Stadler, (2017)

*Requirements for the Inductive Components*

ECPE *Wide Bandgap Systems Integration User Training*, July 2017, Nuremberg, Germany

A. Stadler, (2017)

*12<sup>th</sup> Seminar “Power Electronics for Photovoltaics and Battery Systems”: Power Inductors*

*26<sup>th</sup> Intersolar Europe Conference*, May 2017, Munich, Germany

A. Stadler, (2016)

*Is a Fast Power Loss Determination of Inductors Possible by means of an Analysis of the (Voltage) Step Response?*

STS Expert Seminar, Sept. 2016, Stockach, Germany

M. Albach, A. Stadler, (2016)

ECPE Cluster-Schulung „Induktivitäten in der Leistungselektronik“, Sept. 2016, Nürnberg, Deutschland

A. Stadler, (2016)

*OTTI Seminar “Power Electronics for Photovoltaics”: Power Inductors*

*25<sup>th</sup> Intersolar Europe Conference*, June 2016, Munich, Germany

A. Stadler, (2016)

*Messtechnische Erfassung von Daten für Modelle von Induktivitäten*

ECPE Cluster-Seminar mit Praxiskurs: Messen, Prüfen und Charakterisieren von induktiven Bauelementen in der Leistungselektronik, Juni 2016, Nürnberg, Deutschland

A. Stadler, T. Stolzke, C. Gulden, (2015)

*Optimized Filter Inductors for a 1MW Windmill Demonstrator with an Objective to Reduced Converter Size*

*17<sup>th</sup> Conf. on Power Electronics and Appl. EPE'15-ECCE Europe*, Sept. 2015, Geneva, Switzerland

M. Albach, A. Stadler, (2015)

ECPE Cluster-Schulung „Induktivitäten in der Leistungselektronik“, Juli 2015, Nürnberg, Deutschland

A. Stadler, C. Gulden, N. Blacha, (2015)

*Fortgeschrittene induktive Komponenten der Leistungselektronik*

Belecker Fachtage 2015, Juni 2015, Warstein-Belecke, Deutschland

A. Stadler, (2015)

*OTTI Seminar “Power Electronics for Photovoltaics”: Power Inductors*

*24<sup>th</sup> Intersolar Europe Conference*, June 2015, Munich, Germany

T. Stolzke, A. Stadler, C. Gulden, (2015)

*Calculating Phase Currents for High Frequency Three Phase Inductors via the Inductance Matrix*

*PCIM Conference*, May 2015, Nuremberg, Germany

- A. Stadler, T. Stolzke, C. Gulden, (2015)  
*Design and Simulation of Thermally Optimized Filter Inductors for a 1MW Windmill Demonstrator*  
PCIM Conference, May 2015, Nuremberg, Germany
- A. Stadler, (2014)  
*The Optimum Choice of Stranded Wire for Lead-outs and Bridge Connections of High Frequency Transformers*  
50<sup>th</sup> Int. Conference on Microelectronics, Devices and Materials MIDEM 2014, Oct. 2014, Ljubljana, Slovenia
- A. Stadler, T. Stolzke, C. Gulden, (2014)  
*High Frequency High Current Filter Inductors with Minimum Thermal Resistance*  
16<sup>th</sup> Int. Power Electronics and Motion Control Conference PEMC 2014, Sept. 2014, Antalya, Turkey
- A. Stadler, C. Gulden, (2014)  
*A New Generation of Modular Power Inductors with Minimum Thermal Resistance*  
16<sup>th</sup> Conf. on Power Electronics and Appl. EPE'14-ECCE Europe, Aug. 2014, Lappeenranta, Finland
- M. Albach, A. Stadler, (2014)  
ECPE Cluster-Schulung „Induktivitäten in der Leistungselektronik“, Juli 2014, Nürnberg, Deutschland
- A. Stadler, (2014)  
*OTTI Seminar "Power Electronics for Photovoltaics": Power Inductors*  
23<sup>rd</sup> Intersolar Europe Conference, June 2014, Munich, Germany
- A. Stadler, (2014)  
*High Frequency Eddy Current Losses in Transformer Lead-Outs*  
16<sup>th</sup> IEEE Conference on Electromagnetic Field Computation CEFC 2014, May 2014, Annecy, France
- A. Stadler, T. Stolzke, C. Gulden, (2014)  
*Design and Simulation of High Power Filter Inductors with Minimized Thermal Resistance*  
PCIM Conference, May 2014, Nuremberg, Germany
- A. Stadler, (2014)  
*The AC Resistance of High Frequency Transformer Lead-Outs*  
9<sup>th</sup> International Conference on Computation in Electromagnetics, CEM 2014, Mar. 2014, London, UK
- M. Albach, A. Stadler, (2013)  
ECPE Seminar „Induktivitäten in der Leistungselektronik“, Sept. 2013, Nürnberg, Deutschland
- M. Albach, A. Stadler, (2013)  
ECPE Seminar „Induktivitäten in der Leistungselektronik“, Juli 2013, Nürnberg, Deutschland
- A. Stadler, C. Gulden, (2013)  
*Copper Losses of Litz-Wire Windings Due to an Air Gap*  
15<sup>th</sup> European Conference on Power Electronics and Applications EPE, Sept. 2013, Lille, France
- A. Stadler, R. Huber, T. Stolzke, C. Gulden, (2013)  
*Analytical Calculation of Copper Losses in Litz-Wire Windings of Gapped Inductors*  
19<sup>th</sup> Conf. on the Computation of Electromagnetic Fields Compumag, June 2013, Budapest, Hungary
- A. Stadler, (2013)  
*The Optimization of High Frequency Inductors with Litz-Wire Windings*  
8<sup>th</sup> Int. Workshop on Compatibility in Power Electronics, CPE 2013, June 2013, Ljubljana, Slovenia
- A. Stadler, (2013)  
*OTTI Seminar "Power Electronics for Photovoltaics": Power Inductors*  
22<sup>nd</sup> Intersolar Europe Conference, June 2013, Munich, Germany

A. Stadler, R. Huber, T. Stolzke, C. Gulden, (2013)  
*The Simulation of Copper Losses in Litz-Wire Windings Considering Air Gap Fringing Fields*  
PCIM Conference, May 2013, Nuremberg, Germany

A. Stadler, (2012)  
*High Power Transformers*  
UK Magnetics Society Seminar "Magnetic Materials for the 21<sup>st</sup> Century", Oct. 2012, Hanau, Germany

A. Stadler, (2012)  
*Nonlinear Inductance Simulation by a Method of Summation*  
6<sup>th</sup> Joint European Magnetic Symposia JEMS 2012, Sept. 2012, Parma, Italy

A. Stadler, C. Gulden, T. Stolzke, (2012)  
*Nonlinear Inductors for Active Power Factor Correction Circuits*  
15<sup>th</sup> International Power Electronics and Motion Control Conf. EPE-PEMC, Sept. 2012, Novi Sad, Serbia

A. Stadler, (2012)  
*OTTI Seminar "Power Electronics for Photovoltaics": Power Inductors*  
21<sup>st</sup> Intersolar Europe Conference, June 2012, Munich, Germany

A. Stadler, T. Stolzke, C. Gulden, (2012)  
*Nonlinear Power Inductors for Large Current Crest Factors*  
PCIM Conference, May 2012, Nuremberg, Germany

A. Stadler, C. Gulden, (2012)  
*Efficient Nonlinear Inductors for PV Inverters and Active PFC*  
7<sup>th</sup> Int. Conference on Integrated Power Electronics Systems CIPS, Mar. 2012, Nuremberg, Germany

A. Stadler, (2011)  
*Thermische Simulation von Hochleistungs-Induktivitäten*  
ECPE Seminar „Induktivitäten in der Leistungselektronik“, Okt. 2011, Nürnberg, Deutschland

A. Stadler, C. Gulden, T. Stolzke, (2011)  
*Design and Simulation Method to Adjust the Non-Linear Inductance Curve of a DC Reactor with Solar Inverter Application*  
20<sup>th</sup> Soft Magnetic Materials Conference SMM 20, Sept. 2011, Kos, Greece

H. Roßmanith, M. Albach, J. Patz, A. Stadler, (2011)  
*Improved Characterization of the Magnetic Properties of Hexagonally Packed Wires*  
14<sup>th</sup> European Conference on Power Electronics and Applications EPE, Aug. 2011, Birmingham, UK

A. Stadler, C. Gulden, (2011)  
*Improved Thermal Design of a High Frequency Power Transformer*  
14<sup>th</sup> European Conference on Power Electronics and Applications EPE, Aug. 2011, Birmingham, UK

A. Stadler, (2011)  
*OTTI Seminar "Power Electronics for Photovoltaics": Power Inductors*  
20<sup>th</sup> Intersolar Europe Conference, June 2011, Munich, Germany

### **Best Paper Award**

A. Stadler, (2011)  
*Radiated Magnetic Field of a Low-Frequency Ferrite Rod Antenna*  
7<sup>th</sup> International Workshop on Compatibility in Power Electronics CPE 2011, June 2011, Tallinn, Estonia

A. Stadler, C. Gulden, (2011)  
*Thermal Management and Simulation of a High Frequency Power Transformer*  
PCIM Conference, May 2011, Nuremberg, Germany

A. Stadler, C. Gulden, (2010)  
*The Calculation of Eddy Current Losses in Tube Wound High Current Transformer Windings*  
14<sup>th</sup> Int. Power Electronics and Motion Control Conference EPE-PEMC, Sept. 2010, Ohrid, Macedonia

A. Stadler, (2010)  
*High Power Transformers and Chokes at Medium Frequency – Trends and Requirements on Soft Magnetic Materials*  
4<sup>th</sup> International Conference on Magnetism and Metallurgy WMM10, June 2010, Freiberg, Germany

A. Stadler, (2010)  
*OTTI Seminar "Power Electronics for Photovoltaics": Power Inductors*  
19<sup>th</sup> Intersolar Europe Conference, June 2010, Munich, Germany

A. Stadler, (2010)  
*A Generalized and Very Accurate Model for Rate-Independent Ferromagnetic Hysteresis Phenomena*  
5<sup>th</sup> International Workshop on Multi-Rate Processes and Hysteresis in Mathematics, Physics, Engineering and Information Sciences, June 2010, Pécs, Hungary

A. Stadler, C. Gulden, (2010)  
*Efficient Water Cooled Transformer for High Frequency Induction Heating Applications*  
PCIM Conference, May 2010, Nuremberg, Germany

A. Stadler, (2009)  
*Wassergekühlter Hochleistungstrafo modernster Bauart*  
ECPE Seminar „Induktivitäten in der Leistungselektronik“, Okt. 2009, Nürnberg, Deutschland

#### **Best Student Presentation Award**

A. Stadler, M. Albach, A. Lindner, (2009)  
*A Practical Method to Measure Electrical AC Conductivity of MnZn Ferrites Using Conventional Toroids*  
19<sup>th</sup> Soft Magnetic Materials Conference SMM 19, Sept. 2009, Torino, Italy

A. Stadler, (2009)  
*High-Power Density Transformers – Design Challenges for Induction Heating Systems*  
PCIM Conference, May 2009, Nuremberg, Germany

A. Stadler, M. Albach, (2007)  
*The Prediction and Measurement of Different Loss Mechanisms in Ferrite Cores*  
ECPE Seminar "Passive Components in Power Electronics", Nov. 2007, Nuremberg, Germany

M. Albach, A. Stadler, M. Spang, (2006)  
*The Influence of Ferrite Characteristics on the Inductance of Coils with Rod Cores*  
10<sup>th</sup> Joint MMM/Intermag Conference, Jan. 2007, Baltimore, Maryland, USA

A. Stadler, M. Albach, A. Bucher, (2006)  
*Calculation of Core Losses in Toroids with Rectangular Cross Section*  
12<sup>th</sup> Int. Power Electronics and Motion Control Conference EPE-PEMC, Sept. 2006, Portoroz, Slovenia, paper T2-407

A. Bucher, T. Dürbaum, D. Kübrich, A. Stadler, (2006)  
*Comparison of Different Design Methods for the Parallel Resonant Converter*  
12<sup>th</sup> International Power Electronics and Motion Control Conference EPE-PEMC, Sept. 2006, Portoroz, Slovenia, paper T2-404

A. Stadler, M. Albach, (2006)  
*Analytical Calculation of Stray Fields Generated by Ferrite Rods in EMI Suppression Applications*  
PCIM Conference, May 2006, Nuremberg, Germany

A. Stadler, M. Albach, H. Roßmanith, G. Schubert, (2006)

*EMV-Integration in den Layout-Prozess am Beispiel einer Kombination von Mikrostreifen- und Triplate-Leitungen*

Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, EMV 2006, März 2006, Düsseldorf, Deutschland

A. Stadler, M. Albach, H. Roßmanith, G. Schubert, (2006)

*The Influence of Ground and Floating Planes on the Electromagnetic Coupling Between Board Tracks*

17<sup>th</sup> International Symposium on Electromagnetic Compatibility, EMC Zurich in Singapore, Feb. 2006, Singapore, paper 179

A. Stadler, M. Albach, H. Roßmanith, G. Schubert, (2006)

*Design Methodology to Limit Electromagnetic Coupling Between Board Tracks on PCB Level in Realtime*

17<sup>th</sup> Int. Symposium on Electromagnetic Compatibility, EMC Zurich in Singapore, Feb. 2006, Singapore, paper 60

A. Stadler, M. Albach, F. Macary, (2005)

*The Minimization of Copper Losses in Core-Less Inductors: Application to Foil- and PCB-based Planar Windings*

11<sup>th</sup> European Conference on Power Electronics and Applications EPE, Sept. 2005, Dresden, Germany, paper 200

A. Stadler, M. Albach, S. Chromy, (2005)

*The Optimization of High Frequency Operated Transformers for Resonant Converters*

11<sup>th</sup> European Conference on Power Electronics and Applications EPE, Sept. 2005, Dresden, Germany, paper 77

A. Stadler, M. Albach, F. Macary, (2005)

*The Minimization of Copper Losses in Core-Less Inductors: Application to Foil- and PCB-based Planar Windings*

15<sup>th</sup> Conference on the Computation of Electromagnetic Fields Compumag, June 2005, Shenyang, Liaoning, China, vol. 1, p. 218-219

A. Stadler, M. Albach, S. Chromy, (2005)

*The Optimization of High Frequency Operated Transformers with E-Cores*

15<sup>th</sup> Conference on the Computation of Electromagnetic Fields Compumag, June 2005, Shenyang, Liaoning, China, vol. 3, p. 72-73

A. Stadler, M. Albach, F. Macary, (2005)

*Minimum Loss Design for Core-Less Foil Inductors*

PCIM Conference, June 2005, Nuremberg, Germany, p. 159-163

A. Stadler, M. Albach, S. Chromy, (2005)

*The Optimization of High Frequency Operated Transformers with E-Cores - Application to Resonant Converters*

PCIM Conference, June 2005, Nuremberg, Germany, p. 228-233

A. Stadler, M. Albach, T. Dürbaum, (2005)

*The Minimization of Magnetic Stray Fields from Transformers with Air Gapped Toroids*

4<sup>th</sup> Int. Workshop on Comp. in Power Electronics CPE 2005, June 2005, Gdynia, Poland, p. 123-125

A. Stadler, M. Albach, D. Kübrich, (2005)

*The Optimization of Transformers with Air Gapped Toroids*

20<sup>th</sup> Applied Power Electronics Conference, APEC 2005, Austin, Texas, p. 1938-1943, paper 10356

T. Dürbaum, D. Kübrich, K. Schettlers, A. Stadler, (2005)

*Influence of Non Linear Magnetic Inductance in Passive Mains Harmonic Reduction Circuits*

20<sup>th</sup> Applied Power Electronics Conference, APEC 2005, Austin, Texas, p. 1170-1175, paper 10731

A. Stadler, M. Albach, S. Chromy, (2004)  
*The Minimization of Magnetic Stray Fields from UI-Cores with Air Gaps*  
11<sup>th</sup> International Power Electronics and Motion Control Conference EPE-PEMC, Sept. 2004, Riga, Latvia, paper A101452

M. Albach, A. Stadler, (2004)  
*The Minimization of Magnetic Stray Fields from Toroids with Air Gaps*  
IEEE Symposium on Electromagnetic Compatibility, Aug. 2004, Santa Clara, USA, p. 881-886

T. Flohr, S. Schaller, A. Stadler, W. Brandhuber, M. Niethammer, K. Klingenbeck, P. Steffen, (2001)  
*An Efficient Fourier Method for 3-D Radon Inversion in Exact Cone-Beam CT Reconstruction*  
SPIE: Medical Engineering, 2001

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## Sonstige Vorträge

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### Kundenschulungen bei der STS Spezial-Transformatoren Stockach GmbH & Co. KG

#### STS Grundlagenseminar 2008-2014

Jährlich im März/Apr., ca. 30-40 Teilnehmer (Kunden der STS GmbH & Co. KG)

Vortragsthemen (A. Stadler):

- Grundlagen von Transformatoren und Drosseln
- Kern- und Cu-Verluste im Transformator – Skin- und Proximity-Effekt
- Grundlagen der thermischen Berechnung von Transformatoren

#### STS Spezialseminar 2008-2014

Jährlich im Sept./Okt., ca. 50-80 Teilnehmer (Kunden der STS GmbH & Co. KG)

Vortragsthemen (A. Stadler):

- Messung und Simulation von Kernverlusten in weichmagnetischen Materialien
- Praktischer Aufbau zur messtechnischen Bestimmung der Kernverluste in der Leistungselektronik
- Dimensionierung und Aufbau von verteiltem Luftspalt in amorphen Schnittbandkernen
- Hocheffiziente Leistungsdrosseln für Solar-Wechselrichter
- Mittelfrequenztransformatoren für dezentrale Antriebe in Schienenfahrzeugen
- Streufelder von induktiven Bauteilen
- Kupferverluste in Resonanzdrosseln mit großen Luftspalten
- Praktische Lösungen für integrierte magnetische Bauelemente
- Die Herausforderungen neuester Leistungshalbleiter an die induktiven Bauteile
- InDUR – Ein Meilenstein in der Entwicklung von Leistungsdrosseln