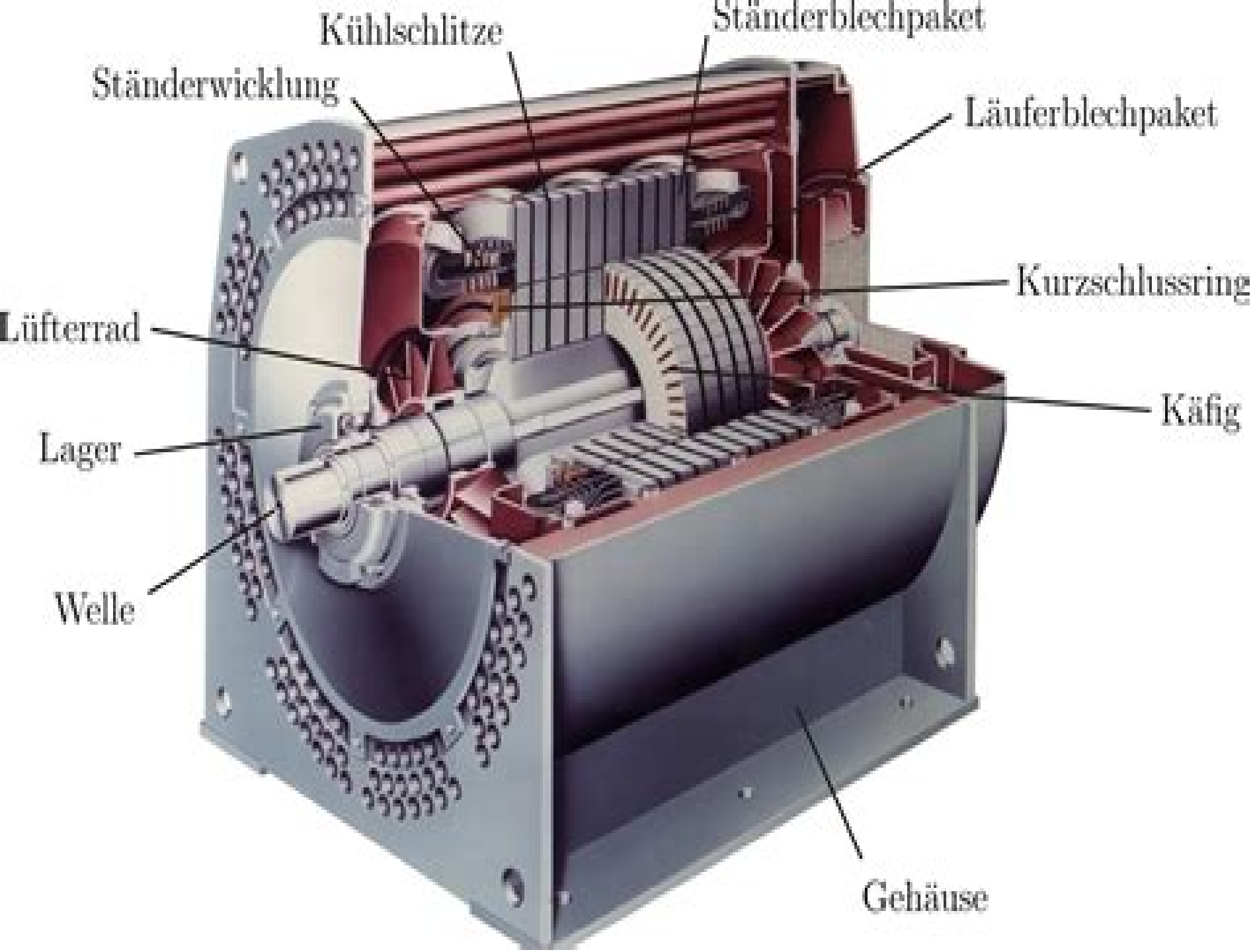




# Elektrische Maschinen

**Dieter Gerling**



## **Elektrische Maschinen:**

*Elektrische Maschinen und Antriebe* Klaus Fuest, Peter Döring, 2007-08-15 Die Wirkungsweise Elektrischer Maschinen und Antriebe wird hier leicht verständlich dargestellt und am Niveau der Fachschulen ausgerichtet Neben dem Transformator werden Gleichstrom und Drehstrommaschinen behandelt Das Kapitel Elektronische Antriebstechnik enthält die Leistungselektronik und die Steuerung von Gleichstrom und Drehstrom Asynchronmaschinen Das Stoffgebiet ist für diejenigen der sich erstmals damit beschäftigt durch mathematisch einfach gehaltene Zusammenhänge komprimierte Darstellung vollständig durchgerechnete Beispiele und Verständnisfragen leicht zu erschließen Wer mit Motoren arbeitet und wissen will wie sie funktionieren und angesteuert werden müssen findet in diesem Buch alle wesentlichen Informationen gut verständlich aufbereitet Bulletin SEV VSE 01 2008

**Grundlagen elektrischer Maschinen** Germar Möller, Bernd Ponick, 2005-12-30 Dieses bewährte Handbuch für Ingenieure der Elektrotechnik liefert eine in sich geschlossene Einführung in die Grundlagen elektrischer Maschinen In klar gegliederten Hauptabschnitten werden Transformatoren Gleichstrommaschinen Dreiphasen Asynchronmaschinen Dreiphasen Synchronmaschinen sowie grundlegende Ausführungen von Einphasen Wechselstrommaschinen umfassend behandelt Grundlagen und allgemeine Gesetzmäßigkeiten der jeweiligen Maschine werden vorgestellt technische und konstruktive Merkmale werden analysiert Der Anhang bietet eine umfangreiche Zusammenstellung wichtiger Normen und Kennziffern Die Bände Berechnung elektrischer Maschinen und Theorie elektrischer Maschinen wurden ebenfalls neu aufgelegt

Elektrische Maschinen Eckhard Spring, 2013-07-01 Dieses Lehrbuch für die Praxis und das praxisorientierte Studium behandelt die Gleichstrommaschine den Transformator die Asynchron und die Synchronmaschine Das Betriebsverhalten steht dabei im Vordergrund Durch die Art der Darstellung wird das Verständnis für die physikalischen Vorgänge geweckt wobei mathematische Formalismen vermieden werden Zahlreiche Beispiele und Aufgaben dienen zum Einbeiben des Lehrstoffes und vermitteln ein Gefühl für sinnvolle Größenordnungen Nach dem Durcharbeiten des Buches ist der Leser in der Lage das Betriebsverhalten der behandelten Maschinen experimentell und rechnerisch zu untersuchen

**Elektrische Maschinen** Theodor Bödefeld, Heinrich Sequenz, 2013-03-13 Dieser Buchtitel ist Teil des Digitalisierungsprojekts Springer Book Archives mit Publikationen die seit den Anfängen des Verlags von 1842 erschienen sind Der Verlag stellt mit diesem Archiv Quellen für die historische wie auch die disziplingeschichtliche Forschung zur Verfügung die jeweils im historischen Kontext betrachtet werden müssen Dieser Titel erschien in der Zeit vor 1945 und wird daher in seiner zeittypischen politisch ideologischen Ausrichtung vom Verlag nicht beworben

*Elektrische Maschinen* Ekkehard Bolte, 2012-01-05 Elektromechanische Energiewandler Motoren Generatoren Aktuatoren finden sich in vielfältigen Anwendungen Da elektromechanische Energiewandler zunehmend Schlüsselkomponenten in komplexen Systemen mit hohen Zuverlässigkeits- und Energieeffizienzanforderungen sind ist die Kenntnis ihrer Wirkungsweise für Hersteller und Nutzer bedeutsam Das Buch beschreibt ausgehend von den physikalischen Grundgesetzen die inneren Zusammenhänge des

Fachgebietes auf der Grundlage einer mehrdimensionalen analytischen Magnetfeldberechnung für alle konstitutiven Felder. So wird ein gesamtsystemischer Ansatz realisiert. Neue Technologien: Echtzeitsignalerfassung und -verarbeitung, integrierte Leistungshalbleitermodule, magnetische Werkstoffe, Wicklungen werden einbezogen. Der Leser erhält ein Hilfsmittel, das ihm nicht nur die Analyse und Auswahl von vorhandenen Elektromotoren mit modernen Methoden ermöglicht. Zusätzlich wird er in die Lage versetzt, für seine speziellen Anwendungsfall einen bezüglich Funktion, Regelbarkeit, Energieeffizienz, Gewicht oder Volumen angepassten, optimierten und damit neuen innovativen Elektromotor/Aktuator zu erarbeiten. Schlagwort: *tailor made*. Dies wird durch CAE-Programme ermöglicht, die den Nutzer interaktiv unterstützt durch GUI-Techniken durch die Analyse des Betriebsverhaltens führen. Das Buch ist für Einsteiger und Praktiker in allen industriellen Branchen geeignet, die mit elektromechanischen Energiewandlern und Leistungselektronik beschäftigt sind.

**Berechnung elektrischer Maschinen** Germar Müller, Karl Vogt, Bernd Ponick, 2012-02-28. Grundlage der Berechnung elektrischer Maschinen ist das Verständnis wesentlicher physikalischer Zusammenhänge. Im zweiten Band der Reihe *Elektrische Maschinen* werden diese Zusammenhänge schrittweise herausgearbeitet und analytisch formuliert. Das Lehrbuch stellt alle Werkzeuge bereit, die zur Berechnung rotierender elektrischer Maschinen benötigt werden. Es zeichnet sich durch eine für die Buchreihe *Elektrische Maschinen* typische einheitliche und geschlossene Darstellungsweise aus. Das erste Kapitel widmet sich ausführlich den Wicklungen elektrischer Maschinen, und in den Kapiteln 2 bis 8 werden die weiteren Elemente und Effekte vorgestellt, die in allen Maschinenarten vorkommen. Mit diesem Baukasten wird anschließend der komplette Entwurfs- und Berechnungsgang wichtiger Maschinenarten behandelt. Dabei werden typische Anforderungen aus der Praxis und Optimierungsfragen ausführlich berücksichtigt. Dieses Handbuch ist unentbehrlich für die Berechnungspraxis und eine wertvolle Informationsquelle für jeden Entwicklungsingenieur, der mit dem Entwurf elektrischer Maschinen befasst ist.

*Elektrische Antriebstechnik* Manfred Meyer, 2012-12-06      **Electrical Machines** Dieter Gerling, 2014-09-17. *Electrical Machines and Drives* play a vital role in industry with an ever increasing importance. This fact necessitates the understanding of machine and drive principles by engineers of many different disciplines. Therefore this book is intended to give a comprehensive deduction of these principles. Special attention is given to the precise mathematical deduction of the necessary formulae to calculate machines and drives and to the discussion of simplifications if applied with the associated limits. So the book shows how the different machine topologies can be deduced from general fundamentals and how they are linked. This book addresses graduate students, researchers and developers of *Electrical Machines and Drives* who are interested in getting knowledge about the principles of machine and drive operation and in detecting the mathematical and engineering specialties of the different machine and drive topologies together with their mutual links. The detailed but compact mathematical deduction together with a distinct emphasis onto assumptions, simplifications and the associated limits leads to a clear understanding of *Electrical Machine and Drive* topologies and characteristics.      **Elektrische Maschinen**

**und Antriebe** Andreas Binder, 2018-05-26 Das Buch führt in einem weiten Bogen von den physikalischen Grundlagen zum Verständnis des stationären und des dynamischen Betriebsverhaltens elektrischer Maschinen und Antriebe. Besonderes Augenmerk wird auf die aktuellen Motorentwicklungen gelegt. Dazu werden die Grundlagen elektrischer Maschinen anhand der drei Grundtypen Asynchronmaschine, Synchronmaschine und Gleichstrommaschine ausführlich besprochen. Bauweisen werden erläutert und das stationäre Betriebsverhalten wird hergeleitet. Neben der anschaulichen Beschreibung anhand moderner Maschinen wird die mathematisch fundierte Grundlage von Anfang an mitentwickelt. Bewusst wird die Drehstromtechnik in den Vordergrund gestellt, da sie die klassische Gleichstromtechnik immer weiter in Nischen verdrängt. Aktuelle Motorentwicklungen vor allem im Zusammenhang mit Umrichterspeisung werden ausführlich besprochen. Auch auf Sonderprobleme wie zusätzliche Verluste und Geräusche bei Umrichterspeisung wird ausführlich eingegangen. An die stationäre Theorie schließt sich im zweiten Teil die dynamische Theorie für alle drei Grundtypen von EMaschinen an, so dass Anlaufvorgänge, plötzliche Kurzschlüsse oder Lastwechsel verstanden werden. Jedes Kapitel enthält durchgerechnete Praxisbeispiele, die oft mit Messergebnissen unterlegt sind. Die Beispiele reichen von Netz- und Umrichter gespeisten Motoren bis hin zu Großgeneratoren im Kraftwerksbereich. In der zweiten Auflage wurden einige Textpassagen bearbeitet und an manchen Stellen nötige Korrekturen durchgeführt, aber der Inhalt im Wesentlichen beibehalten. Eine Aufgabensammlung mit durchgerechneten Anwendungsbeispielen desselben Autors erscheint in einer erweiterten zweiten Auflage als gesonderter Band. Die Zielgruppen: Ingenieurinnen, Ingenieure und Studierende der Fachrichtungen Elektrotechnik, Mechatronik, Antriebstechnik, Energietechnik und Maschinenbau. **Elektrische Maschinen und Antriebssysteme** Liviu

Constantinescu-Simon, Alexandru Fransua, Karl Saal, 2013-07-29 Die Idee zu diesem Handbuch entstand vor ein paar Jahren in einem Gespräch, das ich mit dem Cheflektor des Verlags Vieweg, Dipl.-Ing. Ewald Schmitt, führte. Damals äußerte ich den Wunsch, ein Handbuch über Elektrische Maschinen und Antriebe schreiben zu wollen, das als komprimiertes Kompendium auch alle notwendigen Inhalte wie z.B. spezielle Kapitel der Mathematik, Elektrotechnik, Werkstoffe, Mechatronik, Leistungselektronik, Regelungstechnik u.ä. beinhalten sollte. Während meiner beruflichen Laufbahn hatte ich ein solches Buch beim Studium oder bei Auseinandersetzungen mit Problemen der elektrischen Maschinen vermehrt. Der Verlag Vieweg schlug mir indes ein wesentlich komplexeres Projekt mit der Herausgabe des Handbuches Elektrische Energietechnik vor. Da in diesem Handbuch die Kapitel über Elektrische Maschinen und Antriebssysteme stark gekürzt werden mussten, gab mir der Verlag Vieweg ein paar Jahre später die Gelegenheit, ein zweites Buch, das Ihnen jetzt vorliegt, zu schreiben. Als besonderes Glück empfinde ich die Tatsache, dass ich die Mitarbeit von Prof. Dr.-Ing. Dr. h.c. Alexandru Fransua, Konsultantprofessor an der TU Politehnica in Bukarest und mein langjähriges Vorbild für dieses Buch, sichern konnte, da ich ihn als einen der besten internationalen etablierten Spezialisten auf diesem Fachgebiet schätze. *Elektrische Maschinen und Umformer* Paul Vaske, 2013-07-01

Elektrische Maschinen und Aktoren Wolfgang Gerke, 2012-12-04 Elektrische Maschinen werden im Auto als Generator

und an vielen Stellen als Antrieb eingesetzt Elektromotoren können Stellvorgänge ausführen und beispielsweise Roboterarme bewegen und Brennstoffströme dosieren Dieses Lehrbuch stellt systematisch und praxisgerecht die mechanischen und elektrotechnischen Grundlagen zum Verständnis der elektrischen Maschinen und Aktoren vor und erläutert deren Funktionsweise Es stellt eine geschlossene Darstellung inklusive der wesentlichen Grundlagen dar die besonders Leser anspricht die nicht Elektrotechnik studieren Berechnungsgleichungen wichtiger elektrischer und mechanischer Grundgrößen wie beispielsweise Arbeit und Leistung sind ebenso Inhalt des Buches wie die wesentlichen Bestandteile von Aktoren Wirkungsweise und Steuerungsmöglichkeiten von Aktoren werden anhand vieler Beispiele und Anwendungen vorgestellt

**Elektrische Maschinen und Antriebe** Andreas Kremser, 2013-03-09 Für den Ingenieur im Bereich der antriebstechnischen Entwicklung sind Grundkenntnisse über das Betriebsverhalten von Gleichstrom Drehstromasynchron und synchronmaschinen sowie von Transformatoren unverzichtbar darüber hinaus ist Wissen über die elektromagnetisch mechanische Energiewandlung hilfreich Dieses Lehrbuch liefert hierzu die Grundlagen Zahlreiche ausführliche Berechnungsbeispiele erleichtern das Verständnis des Stoffes Die Darstellung der theoretischen Grundlagen wurde soweit vereinfacht dass zum Verständnis Grundkenntnisse der Elektrotechnik ausreichen Die zweite Auflage enthält u a aktualisierte Normen insbesondere zum Explosionsschutz normgerechte Formelzeichen neue Beispiele zum Abschnitt Synchronmaschinen Gleichstrommotoren und zum Induktionsgesetz sowie Ergänzungen zum Kapitel Asynchronmaschinen Large A.C. Machines Iliya Boguslawsky, Nikolay Korovkin, Masashi Hayakawa, 2016-11-30 In this monograph the authors solve the modern scientific problems connected with A C motors and generators based first on the detailed consideration of their physical phenomena The authors describe the theory and investigative methods they developed and applied in practice which are considered to be of essential interest for specialists in the field of the electrical engineering industry in European countries the USA Argentina and Brazil as well as in such countries as India China and Iran This book will be of interest to engineers specialized in the field of the manufacture operation and repair of A C machines motors and generators as well as electric drives to professors lecturers and post graduate students of technical universities who are specializing in the field of electric machine engineering and electric drives and to students who are engaged in the field of high current techniques electric drives and electric machine engineering **Elektrische Maschinen und Antriebstechnik** Eberhard

Seefried, 2013-03-08 Es wird der Einsatz elektrischer Maschinen in Antrieben unter besonderer Berücksichtigung moderner Stromrichtertechnik gezeigt Ausgehend von der Struktur eines elektrischen Antriebssystems wird zunächst das mechanische Teilsystem behandelt Daran schließt sich eine ausführliche Darstellung des Betriebsverhaltens elektrischer Maschinen für kontinuierliche und diskontinuierliche Drehbewegungen an Das Buch wird mit der Vermittlung von Fertigkeiten zur Dimensionierung von Elektromotoren für typische Anwendungsfälle abgeschlossen Es ist als Lehrbuch konzipiert Nach jedem Abschnitt werden Kontrollfragen und Übungsaufgaben kleineren Umfangs gestellt die der Leser im Sinne eines aktiven

Kenntniserwerbs selbst ndig l sen soll Die L sungen zur berpr fung der eigenen Ergebnisse befinden sich am Ende des Buches Das Niveau ist den Anforderungen an die entsprechenden Lehrveranstaltungen technischer Studieng nge an Fachhochschulen angepasst Es dient zur Unterst tzung der Vorlesungen ist aber auch zum Selbststudium geeignet

International Cable Directory of the World, in Conjunction with Western Union Telegraphic Code System International Cable Directory Company,1908     *Normalien für elektrische Maschinen und Transformatoren* Verband Deutscher Elektrotechniker,1902     **Elektrotechnische Bibliothek** ,1887     **Bibliography of Scientific and Industrial Reports** ,1947     **Power Quality in Power Systems and Electrical Machines** Ewald F. Fuchs,Mohammad A. S.

Masoum,2015-07-14 The second edition of this must have reference covers power quality issues in four parts including new discussions related to renewable energy systems The first part of the book provides background on causes effects standards and measurements of power quality and harmonics Once the basics are established the authors move on to harmonic modeling of power systems including components and apparatus electric machines The final part of the book is devoted to power quality mitigation approaches and devices and the fourth part extends the analysis to power quality solutions for renewable energy systems Throughout the book worked examples and exercises provide practical applications and tables charts and graphs offer useful data for the modeling and analysis of power quality issues Provides theoretical and practical insight into power quality problems of electric machines and systems 134 practical application example problems with solutions 125 problems at the end of chapters dealing with practical applications 924 references mostly journal articles and conference papers as well as national and international standards and guidelines

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