

Battery Management Systems

Design by Modeling

by
Henk Jan Bergveld,
Wanda S. Kruijt and
Peter H.L. Notten



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Battery Management Systems Design By Modelling Philips Research Series

**H. J. Bergveld, W. S. Kruijt, P. H. L
Notten**



Battery Management Systems Design By Modelling Philips Research Series:

Battery Management Systems H.J. Bergveld, W.S. Kruijt, P.H.L. Notten, 2013-03-09 Battery Management Systems Design by Modelling describes the design of Battery Management Systems BMS with the aid of simulation methods The basic tasks of BMS are to ensure optimum use of the energy stored in the battery pack that powers a portable device and to prevent damage inflicted on the battery pack This becomes increasingly important due to the larger power consumption associated with added features to portable devices on the one hand and the demand for longer run times on the other hand In addition to explaining the general principles of BMS tasks such as charging algorithms and State of Charge SoC indication methods the book also covers real life examples of BMS functionality of practical portable devices such as shavers and cellular phones Simulations offer the advantage over measurements that less time is needed to gain knowledge of a battery's behaviour in interaction with other parts in a portable device under a wide variety of conditions This knowledge can be used to improve the design of a BMS even before a prototype of the portable device has been built The battery is the central part of a BMS and good simulation models that can be used to improve the BMS design were previously unavailable Therefore a large part of the book is devoted to the construction of simulation models for rechargeable batteries With the aid of several illustrations it is shown that design improvements can indeed be realized with the presented battery models Examples include an improved charging algorithm that was elaborated in simulations and verified in practice and a new SoC indication system that was developed showing promising results The contents of Battery Management Systems Design by Modelling is based on years of research performed at the Philips Research Laboratories The combination of basic and detailed descriptions of battery behaviour both in chemical and electrical terms makes this book truly multidisciplinary It can therefore be read both by people with an electro chemical and an electrical engineering background Battery Management Systems Valer Pop, Henk Jan Bergveld, Dmitry Danilov, Paul P. L. Regtien, Peter H. L. Notten, 2008-05-28 Battery Management Systems Accurate State of Charge Indication for Battery Powered Applications describes the field of State of Charge SoC indication for rechargeable batteries With the emergence of battery powered devices accurately estimating the battery SoC and even more important the remaining time of use becomes more and more important An overview of the state of the art of SoC indication methods including available market solutions from leading semiconductor companies e.g. Texas Instruments Microchip Maxim is given in the first part of this book Furthermore a universal SoC indication system that enables 1% or better accuracy under all realistic user conditions is developed A possible integration with a newly developed ultra fast recharging algorithm is also described The contents of this book builds further on the contents of the first volume in the Philips Research Book Series Battery Management Systems Design by Modelling Since the subject of battery SoC indication requires a number of disciplines this book covers all important disciplines starting from electro chemistry to understand battery behaviour via mathematics to enable modelling of the observed battery behaviour and measurement science to

enable accurate measurement of battery variables and assessment of the overall accuracy to electrical engineering to enable an efficient implementation of the developed SoC indication system It will therefore serve as an important source of information for any person working in engineering and involved in battery management *Battery Management Systems* H. J. Bergveld, W. S. Kruijt, P. H. L. Notten, 2014-01-15

Technologies and Applications for Smart Charging of Electric and Plug-in Hybrid Vehicles Ottorino Veneri, 2016-12-30 This book outlines issues related to massive integration of electric and plug in hybrid electric vehicles into power grids Electricity is becoming the preferred energy vector for the next new generation of road vehicles It is widely acknowledged that road vehicles based on full electric or hybrid drives can mitigate problems related to fossil fuel dependence This book explains the emerging and understanding of storage systems for electric and plug in hybrid vehicles The recharging stations for these types of vehicles might represent a great advantage for the electric grid by facilitating integration of renewable and distributed energy production This book presents a broad review from analyzing current literature to on going research projects about the new power technologies related to the various charging architectures for electric and plug in hybrid vehicles Specifically focusing on DC fast charging operations as well as grid connected power converters and the full range of energy storage systems These key components are analyzed for distributed generation and charging system integration into micro grids The authors demonstrate that these storage systems represent effective interfaces for the control and management of renewable and sustainable distributed energy resources New standards and applications are emerging from micro grid pilot projects around the world and case studies demonstrate the convenience and feasibility of distributed energy management The material in this unique volume discusses potential avenues for further research toward achieving more reliable more secure and cleaner energy Battery/Energy Technology (General) - 216th ECS Meeting Z. Ogumi, 2010-04 The papers included in this issue of ECS Transactions were originally presented in the symposium Battery Energy Technology Joint General Session held during the 216th meeting of The Electrochemical Society in Vienna Austria from October 4 to 9 2009 *AmIware* Satyen Mukherjee, Emile Aarts, Raf Roovers, Frans Widdershoven, Martin Ouwerkerk, 2006-06-29 Ambient Intelligence is one of the new paradigms in the development of information and communication technology which has attracted much attention over the past years The aim is the to integrate technology into people environment in such a way that it improves their daily lives in terms of well being creativity and productivity Ambient Intelligence is a multidisciplinary concept which heavily builds on a number of fundamental breakthroughs that have been achieved in the development of new hardware concepts over the past years New insights in nano and micro electronics packaging and interconnection technology large area electronics energy scavenging devices wireless sensors low power electronics and computing platforms enable the realization of the heaven of ambient intelligence by overcoming the hell of physics Based on contributions from leading technical experts this book presents a number of key topics on novel hardware developments thus providing the reader a good insight into the physical basis of

ambient intelligence It also indicates key research challenges that must be addressed in the future Sensor Systems and Software Marco Zuniga,Gianluca Dini,2013-12-12 This book constitutes the thoroughly refereed post conference proceedings of the 4th International ICST Conference on Sensor Systems and Software S Cube 2013 held in Lucca Italy 2013 The 8 revised full papers and 2 invited papers presented cover contributions on different technologies for wireless sensor networks including security protocols middleware analysis tools and frameworks Optimal Control of Hybrid Vehicles Bram de Jager,Thijs van Keulen,John Kessels,2013-04-05 Optimal Control of Hybrid Vehicles provides a description of power train control for hybrid vehicles The background environmental motivation and control challenges associated with hybrid vehicles are introduced The text includes mathematical models for all relevant components in the hybrid power train The power split problem in hybrid power trains is formally described and several numerical solutions detailed including dynamic programming and a novel solution for state constrained optimal control problems based on the maximum principle Real time implementable strategies that can approximate the optimal solution closely are dealt with in depth Several approaches are discussed and compared including a state of the art strategy which is adaptive for vehicle conditions like velocity and mass Three case studies are included in the book a control strategy for a micro hybrid power train experimental results obtained with a real time strategy implemented in a hybrid electric truck and an analysis of the optimal component sizes for a hybrid power train Optimal Control of Hybrid Vehicles will appeal to academic researchers and graduate students interested in hybrid vehicle control or in the applications of optimal control Practitioners working in the design of control systems for the automotive industry will also find the ideas propounded in this book of interest *Dynamic Modeling, Simulation and Control of Energy Generation* Ranjan Vepa,2013-09-11 This book addresses the core issues involved in the dynamic modeling simulation and control of a selection of energy systems such as gas turbines wind turbines fuel cells and batteries The principles of modeling and control could be applied to other non convention methods of energy generation such as solar energy and wave energy A central feature of Dynamic Modeling Simulation and Control of Energy Generation is that it brings together diverse topics in thermodynamics fluid mechanics heat transfer electro chemistry electrical networks and electrical machines and focuses on their applications in the field of energy generation its control and regulation This book will help the reader understand the methods of modelling energy systems for controller design application as well as gain a basic understanding of the processes involved in the design of control systems and regulators It will also be a useful guide to simulation of the dynamics of energy systems and for implementing monitoring systems based on the estimation of internal system variables from measurements of observable system variables Dynamic Modeling Simulation and Control of Energy Generation will serve as a useful aid to designers of hybrid power generating systems involving advanced technology systems such as floating or offshore wind turbines and fuel cells The book introduces case studies of the practical control laws for a variety of energy generation systems based on nonlinear dynamic models without relying on linearization Also the book

introduces the reader to the use nonlinear model based estimation techniques and their application to energy systems

Measurement Science for Engineers Paul Regtien, F. van der Heijden, M. J. Korsten, W Otthius, 2004-06-01 This volume from an international authority on the subject deals with the physical and instrumentation aspects of measurement science the availability of major measurement tools and how to use them This book not only lays out basic concepts of electronic measurement systems but also provides numerous examples and exercises for the student Ideal for courses on instrumentation control engineering and physics Numerous worked examples and student exercises

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