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A Microcontroller Based Mppt Charge Controller

**Martin Sokol, Dídac Mallorquín
Colina, Nikos Konstantinidis, Ahmed
Berrada**

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Power Electronic Converters for Solar Photovoltaic Systems L. Ashok Kumar,S.Albert Alexander,Madhuvanthani Rajendran,2020-11-01 Power Electronic Converters for Solar Photovoltaic Systems provides design and implementation procedures for power electronic converters and advanced controllers to improve standalone and grid environment solar photovoltaics performance Sections cover performance and improvement of solar photovoltaics under various conditions with the aid of intelligent controllers allowing readers to better understand the nuances of power electronic converters for renewable energy systems With algorithm development and real time implementation procedures this reference is useful for those interested in power electronics for performance improvement in distributed energy resources design of advanced controllers and measurement of critical parameters surrounding renewable energy systems By providing a complete solution for performance improvement in solar PV with novel control techniques this book will appeal to researchers and engineers working in power electronic converters renewable energy and power quality Includes simulation studies and photovoltaic performance analysis Uses case studies as a reference for design and research Covers different varieties of power converters from fundamentals to implementation

Intelligent Computing Techniques for Smart Energy Systems Akhtar Kalam,Khaleequr Rehman Niazi,Amit Soni,Shahbaz Ahmed Siddiqui,Ankit Mundra,2019-12-16 The book compiles the research works related to smart solutions concept in context to smart energy systems maintaining electrical grid discipline and resiliency computational collective intelligence consisted of interaction between smart devices smart environments and smart interactions as well as information technology support for such areas It includes high quality papers presented in the International Conference on Intelligent Computing Techniques for Smart Energy Systems organized by Manipal University Jaipur This book will motivate scholars to work in these areas The book also prophesies their approach to be used for the business and the humanitarian technology development as research proposal to various government organizations for funding approval

Computational Problems in Science and Engineering II Nikos E. Mastorakis,Imre J. Rudas,Yuriy S. Shmaliy,2025-02-28 This book provides readers with modern computational techniques for solving variety of problems from electrical mechanical civil and chemical engineering Mathematical methods are presented in a unified manner so they can be applied consistently to problems in applied electromagnetics strength of materials fluid mechanics heat and mass transfer environmental engineering biomedical engineering signal processing automatic control and more

Proceedings of Third International Conference on Intelligent System Nguyen Hoang Long,João Manuel R. S. Tavares,Souvik Pal,Le Hoang Son,Binh Thai Pham,2025-08-08 This book gathers selected high quality research papers presented at the Third International Conference on Intelligent System ICIS 2024 organized by University of Transport Technology Hanoi Vietnam during 24 25 October 2024 It discusses high quality and cutting edge research in the areas of informatics intelligent systems and smart technologies and applications The book is a collection of the latest research articles in intelligent control artificial

intelligence neural networks knowledge discovery decision support systems soft computing data mining and ontologies machine learning intelligent measurement and other related fields *Proceedings of ... International Conference on Power Electronics and Drive Systems*, 2005 Designing Sustainable Rural Wireless Networks for Developing Regions Sonesh Surana, 2009 *Applied Energy and Power Engineering IV* Dan Hong Cheng, Qun Jie Xu, Wei Feng Yao, 2014-12-11 Selected peer reviewed papers from the 4th International Conference on Energy Environment and Sustainable Development EESD 2014 October 25 26 2014 Nanjing China Synerjy, 1996 **Solar Engineering** American Society of Mechanical Engineers. Solar Energy Division. Conference, 2006 *Canadian Journal of Electrical and Computer Engineering*, 2001 Conference Record, Industry Applications Society, IEEE-IAS Annual Meeting (1981) IEEE Industry Applications Society, 1999 *Index to IEEE Publications* Institute of Electrical and Electronics Engineers, 1997 Issues for 1973 cover the entire IEEE technical literature Advanced Energy Technology Charles C. Zhou, Jin Yue Yan, Ren Jie Dong, Bo Jin, 2014-06-18 Selected peer reviewed papers from the 2014 International Conference on Energy and Environmental Protection ICEEP 2014 April 26 28 2014 Xi an China **Arduino Based Hybrid MPPT Controller for Wind and Solar** Michael Assaad, 2017 Renewable power systems are becoming more affordable and provide better options than fossil fuel generation for not only the environment but a benefit of a reduced cost of operation Methods to optimize charging batteries from renewable technologies is an important subject for off grid and micro grids and is becoming more relevant for larger installations Overcharging or undercharging the battery can result in failure and reduction of battery life The Arduino hybrid MPPT controller takes the advantage of solar and wind energy sources by controlling two systems simultaneously The ability to manage two systems with one controller is better for an overall production of energy cost and manageability at a minor expense of efficiency The hybrid MPPT uses two synchronous buck DC DC converters to control both wind and solar The hybrid MPPT performed at a maximum of 93.6% efficiency while the individual controller operated at a maximum 97.1% efficiency when working on the bench test When designing the controller to manage power production from a larger generator the inductor size was too large due to the frequency provided by the Arduino A larger inductor means less allowable current to flow before the inductor becomes over saturated reducing the efficiency of the controller Utilizing a different microcontroller like the PIC16C63A produces a much faster frequency which will reduce the inductor size needed and allow more current before over saturation **Science Abstracts**, 1995 **IEEE International Symposium on Industrial Electronics Proceedings**, 2004 Electrical & Electronics Abstracts, 1994 **Development and Simulation of Maximum Power Point Tracking (MPPT) Controller with Ripple Correlation Control (RCC) for Deep Space Spacecraft** Md Sadab Mumtaheen Mahmud, 2020 Solar energy is the main contributor of power in most spacecraft With the growth of power requirements in spacecraft due to complex computational and instrumentational needs it is essential that it is equipped with high performance power converters There also exists the challenge of mass and volume constraints for

spacecraft hence the power converters must be designed with high power density to meet such demands To design power converters with high power density for space applications radiation hardened gallium nitride GaN semiconductor switches must be used To meet the high power requirements the photovoltaics PV powering the system must also function at its maximum power point MPP Although PV efficiency has increased over time solar irradiance and temperatures can fluctuate dramatically in deep space which causes substantial variations in the MPP of the PV array which can decrease the overall system efficiency Thus it is always imperative to track the MPP of the PV panels to maintain optimal efficiency This thesis establishes GaN as the most suitable device in DC DC converters for space applications and compares it with traditional semiconductor devices To tackle the problem of maximum power point tracking MPPT this thesis shows the development and simulation of a digital MPPT controller which employs the ripple correlation control RCC algorithm It is explained why RCC supersedes the conventional perturb and observe P the development and simulation of an analog controller is also shown This digital RCC based MPPT controller logic can be ported to any microcontroller to be used as an MPPT controller for DC DC converters with any topology The results show the efficacy of the developed MPPT controller by swiftly and precisely tracking the MPP of the PV array in rapidly changing solar irradiance conditions

Microcontroller-based System Controller for a Hybrid Electric Vehicle John Hsu,2002

MPPT Tracker S.M.K.B. Edition Martin Sokol,Dídac Mallorquín Colina,Nikos Konstantinidis,Ahmed Berrada,2010-05-18 Solarcom is a French company that is dedicated to supply through solar energy remote telecommunication devices such as repeaters of fiber optics or phone antennas The project is commissioned by Solarcom for the EPS work team from ENIT and consists in realize the design of a voltage regulator based on maximum power point tracking algorithms MPPT to control the operating point of the power source formed by an array of photovoltaic panels thus improving their performance and make effective control over the method and charge status of the battery First is done a management is explained in the first chapter how is managed the different resources during the time to finish the project in the deadline In the second chapter is made a little State of art to know how is the actual market in this area ant to decide the specifications and price target To make the design of the device is necessary to model the physical environment in which the voltage regulator work to validate step by step through simulation different algorithms and components which will be based regulator The software chosen to realize the mathematical models of the different physical devices on which operation of voltage regulator depends is MATLAB 2010b the models were made by modeling and simulation tool SIMULINK The hardware design of the device is implemented in Solid Works and in this chapter is explained every component that is inside the device how it function and why it s selected In this chapter is showed all necessary to build it physically In the software design chapter is explained every function used to make the regulator functional and implemented it in microcontroller the code is made in C language by Code Warrior for Mororolla

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