



# The Winning Solar Car Design

**LM Reder**

## **The Winning Solar Car Design:**

**The Winning Solar Car** Douglad Carroll,2003-10-17 A successful solar car team must have a good car good drivers good weather information good strategy and a well trained support team Based on the author s experiences designing and building five solar cars over a ten year period this book focuses on the most imporant aspects of designing a competitive solar car including developing a racing strategy efficient solar car driving project management and designing the specific subsystems of the car Chapters cover Design Methodology Aerodynamics of Solar Cars Composite Materials Car Balance and Spring Rates and more    *A Solar Car Primer* Eric Forsta Thacher,2015 Teaches readers to fund design and build a competitive solar race car Draws on real experiences of successful teams to emphasize cost and energy efficiency Enables a complete understanding of the application of solar power to vehicles from underlying physics to practical implementation Includes pivotal information on recent advances such as the World Solar Challenge s addition of a Cruiser Class allowing multiple occupants This exciting primer on Solar Racing literally starts from the ground up describing how the interactions of a vehicle with its environment circumscribe its ultimate success from aerodynamics to resistance and propulsion By demonstrating how to mathematically model these underlying physical phenomena the author helps solar racing competitors carefully select key characteristics of the vehicle such as weight and shape to produce optimal speed Energy conversion and demand are given particular attention followed by chapters devoted to examining solar racers design manufacture and testing using a structured problem solving process to keep projects on track and on schedule A chapter devoted to energy management strategies provides invaluable tips on maximizing average speed during a race Complex issues such as ventilation system analysis and performance simulation are covered in dedicated appendices The financial aspect of project design is not neglected as both fund raising and cost estimation are given in depth consideration    **Project STAR** ,2001

**Designing with Photovoltaics** Angèle Reinders,2020-04-30 Designing with Photovoltaics cover a broad range of topics related to the design of products buildings and vehicles with integrated photovoltaic PV technologies including storage aspect It enables the reader to easily design new products buildings and vehicles through use of innovative PV products Diverse categories of product integrated PVs are discussed including applications of solar power for mobility and building integrated systems along with design and manufacturing related information about solar cells Illustrating design cases of various PV powered products special attention is paid to end users and environmental aspects of PV applications Aimed at senior undergraduates graduates and professionals in electrical engineering architecture design physics mechanical engineering and those specifically studying photovoltaics it Covers the different product integrated photovoltaics PIPV with a focus on design and manufacturing Presents comprehensive overview of all aspects of designing with photovoltaics Includes product integrated PV building integrated PV and solar powered mobility concepts Contains real design cases showing how to design with photovoltaics Discusses context of environmental issues and user aspects    *A Solar Car Primer* Eric Forsta

Thacher,2015-07-02 This exciting primer on Solar Racing literally starts from the ground up describing how the interactions of a vehicle with its environment circumscribe its ultimate success from aerodynamics to resistance and propulsion By demonstrating how to mathematically model these underlying physical phenomena the author helps solar racing competitors carefully select key characteristics of the vehicle such as weight and shape to produce optimal speed Energy conversion and demand are given particular attention followed by chapters devoted to examining solar racers design manufacture and testing using a structured problem solving process to keep projects on track and on schedule A chapter devoted to energy management strategies provides invaluable tips on maximizing average speed during a race Complex issues such as ventilation system analysis and performance simulation are covered in dedicated appendices The financial aspect of project design is not neglected as both fund raising and cost estimation are given in depth consideration

**Recent Trends in Manufacturing and Materials Towards Industry 4.0** Muhammed Nafis Osman Zahid,Amiril Sahab Abdul Sani,Mohamad Rusydi Mohamad Yasin,Zulhelmi Ismail,Nurul Akmal Che Lah,Faiz Mohd Turan,2021-02-18 This book presents part of the proceedings of the Manufacturing and Materials track of the iM3F 2020 conference held in Malaysia This collection of articles deliberates on the key challenges and trends related to manufacturing as well as materials engineering and technology in setting the stage for the world in embracing the fourth industrial revolution It presents recent findings with regards to manufacturing and materials that are pertinent towards the realizations and ultimately the embodiment of Industry 4.0 with contributions from both industry and academia

*Model Solar Car Racing* Peter Harley,1993      Journal of Engineering Education ,2002      *Speed of Light* David M. Roche,1997      **Automotive Engineering** ,1991      Design News ,1990      *Graduating Engineer* ,1993      **The George M. Landes Prize for Technical Communication 1994** ,1994

*Design World* ,1989      **Business Florida** ,2006      Power System Design for Solar Car Sunil Shanaz Redzuan Perpinder,2010 The solar car power system consists of three main subsystems which are the solar array battery management and lastly battery pack It is arguably the most essential system of a solar car since it generates power for the car thus vastly influences the functionality of the car itself This project was carried out to design a solar car power system that is feasible cost effective and in compliance with the rules and regulations of the 2011 World Solar Challenge WSC The main objective of this project was to design an electrical layout of a solar car power system with components that are properly selected as well as carrying out analysis to determine the practicality and compatibility of the design The design of the power system was divided into four levels which were the selection of subsystems main components design of the subsystems the conditioning of the power system and finally the design of the overall power system itself These steps involved drawing of design design calculations and analysis of compatibility within the power system The drawings involved in the design of the system were done via Solidworks 2010 and SmartDraw 2010 softwares The finalized design delivered a power system that could generate a maximum power of 837.6W through its solar array designed by tabbed monocrystalline solar cells The power generated

would be stored in a battery pack which consists of five VRLA batteries with a combined power capacity of 6.4 kWh. A buck type maximum power point tracker configures the input from the solar array to the battery pack. Motor controller of the actuation system would configure the power system to continuously supply 1 kW to the motor. It is calculated that in ideal conditions the power system can continuously power the motor for at least 11.99 hours which is already sufficient for a day of solar racing. The results and discussion concluded that the design of the solar car power system is feasible to be implemented and is considerably cost effective within the financial prowess of the university. Through proper justifications the design is also proven to be compatible within the system itself. For further improvements in the future this project should be conducted with a greater budget so that rather than coming up with a conceptual design a fabrication or at least a better form of design simulation can be done. Besides that with greater budget better components that are more costly are then affordable.

**Motor** ,1907    *American Book Publishing Record* ,2004    **Mechanical and Industrial Engineering Observer**  
University of Illinois at Urbana-Champaign. Dept. of Mechanical and Industrial Engineering,1994    *Design & Applied Arts Index* ,1997

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