

The Winning Solar Car Design

The Winning Solar Car Winning Solar Car Dividend New Scientist Ecodemia New Scientist and Science Journal The World of Electric and Solar Vehicles The Car that Could The Leading Edge July Meeting, 1966 Science Education International The George M. Landes Prize for Technical Communication 1994 Solenergi Alternative Energy Sourcebook 1991 Pacific Friend Home Power Technology Century Alternative Sources of Energy Tools and Tactics of Design Texas Energy (1989) Douglad Carroll Julian Keniry Michael Shnayerson Goro Tamai University of Michigan. Board of Regents Harald N. Røstvik Real Goods Trading Corporation Peter G. Dominick

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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 important 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

unprecedented secrecy surrounded the early development of general motors s impact shnayerson watched the story unfold from a position of access never granted a reporter before literally from the inside of the pace setting gm impact program this is the first book to penetrate the silence surrounding gm s risky and successful decision to become the world s first mass producer of the electric car

the purpose of this book is to provide a basic understanding of the aerodynamics involved in designing an ultra streamlined land vehicle it describes many of the important design goals and parameters for producing a low drag body it is designed to be a how to manual for the budding ground up solar car and ultralight vehicle constructor as well as the solar electric ultralight vehicle enthusiast

this text uses an integrated and interactive set of materials to teach students about the process of engineering design using a very strong engineering context and providing an experiential resource this material exposes students to the cognitive and interpersonal skills required to execute the design process and introduces them to some of the productivity tools used by engineers phases of the design process are covered which reflect the new abet accreditation criteria these areas include defining the problem formulating solutions developing models and prototypes and presenting the design topics on decision making communication collaboration and self management are also presented in order for students to learn how these various skills are best applied to each phase of the design process suitable for a freshman sophomore introductory design course dominick s book can also be used for some upper level design courses the text is meant to support student work on a variety of design projects regardless of engineering discipline

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