



E-Wheel(TM) - The New Generation of Pedal Electric Cycles (Pedelects): An Integrated Electric Wheel based on all-in-one idea

By Phuoc Nguyen

Anchor Academic Publishing Jul 2015, 2015. Taschenbuch. Book Condition: Neu. 220x155x5 mm. Neuware - This application offers an introduction to the new generation of pedal electric cycles (pedelecs) and its potential for society in the design and technology in terms of industrial design and mechanical engineering. E-Wheel(TM), a multi-award-winning patented design, stands for Integrated Electric Wheel, based on all-in-one idea. E-Wheel(TM) is not just a redesigning of common pedelecs, however, E-Wheel(TM) and the others will be playing an ever more significant role in our everyday mobility with very positive 'support effect' for urban transportation. Detail CAD data and Finite Element Analysis (FEA) model for both electromechanical and structure analysis are presented in this work and those show that the E-Wheel(TM) will take advantage of conventional electric bicycles (e-bikes) or common pedelecs. Besides, the application-oriented brushless motor microcontroller design is also presented. The electrical requirements of the controller (voltage, current, frequency) influence the selection of components is fully developed and used to illustrate these methods. 84 pp. English.



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