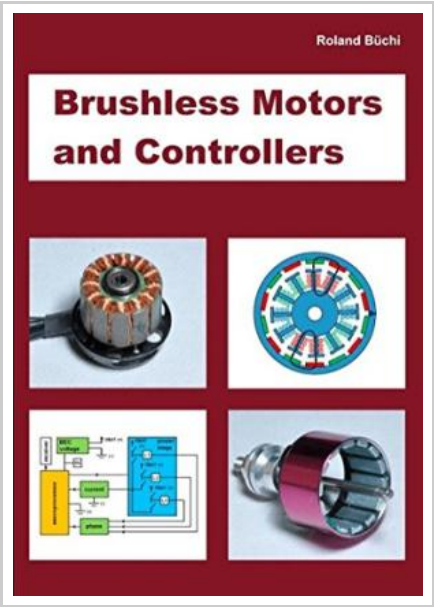

Brushless Motors and Controllers

By Roland BÃ¼chi

Books On Demand. Paperback. Book Condition: New. Paperback. 134 pages. Dimensions: 8.2in. x 5.8in. x 0.4in.In recent years, brushless DC motors and controllers have begun an unparalleled triumph in model construction and in all technical fields. This book is intended to show how a brushless motor works. The basic principle is discussed first, before all the key terms such as kV and rpmV, operating voltage, load and idle current, torque, turns, electrical and mechanical power, losses, efficiency, etc. are explained. A brushless motor cant work without a brushless controller, it requires a three-phase AC voltage. To increase the speed properly, the controller must have information on the rotor position. This can be done by Hall sensors or directly via the motor windings. All that will be taken into account in the book. Contents: 1. Introduction1. 1 Electro-mechanical energy converter1. 2 Differences between brushed and brushless motor1. 3 No brushless motor without brushless DC controller1. 4 Brushless DC motor or just brushless motor 2. Working principle of the brushless motor2. 1 Active principle2. 2 Action of force on a current-carrying conductor in a magnetic field2. 3 Force action in practice on the example of an inrunner2. 4 More stator slots and...

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