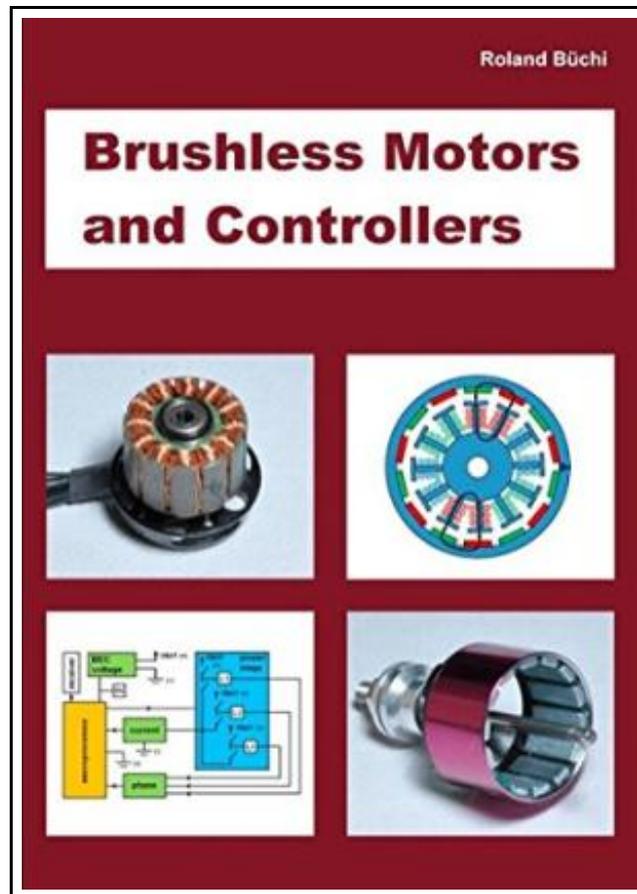# Brushless Motors and Controllers

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Reviews

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(Lavina Torp)

BRUSHLESS MOTORS AND CONTROLLERS

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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 magnetic poles on the examples of outrunners 6S8P and 12S14P2. 5 Star connection, delta connection2. 6 Findings in brief 3. Characteristics of the brushless motor3. 1 kV, rpmV3. 2 Winding resistor3. 3 Motor characteristics3. 4 Turns3. 5 Motor power3. 6 Braking operation3. 7 Efficiency3. 8 Findings in brief4. Brushless DC Controllers4. 1 Power stage4. 2 Timing and phase measurement4. 3 Maximum current, current and temperature measurement4. 4 BEC voltage4. 5 Low voltage measurement4. 6 Operation modes4. 7 Microcontroller and setting the parameters4. 8 Findings in brief5. Practical examples5. 1 Practical tips for cabling5. 2 Graupner Compact drive5. 3 Modification of...

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