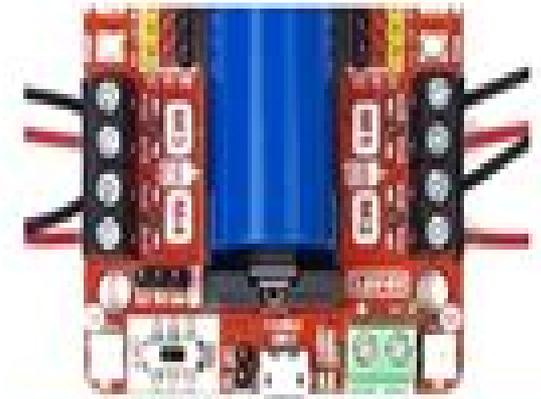
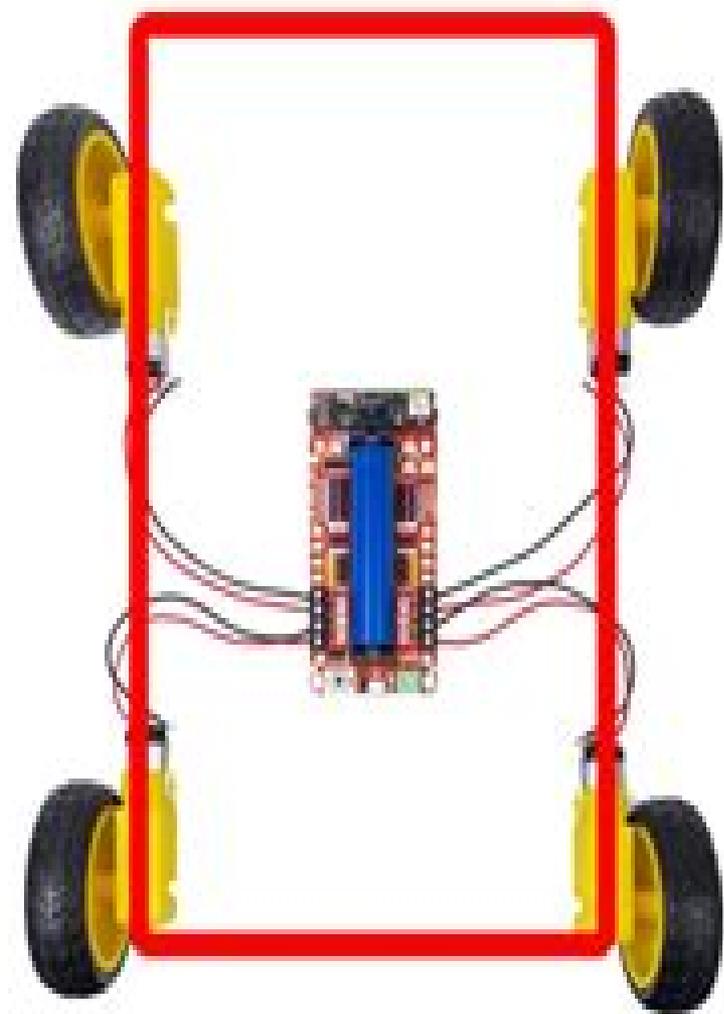
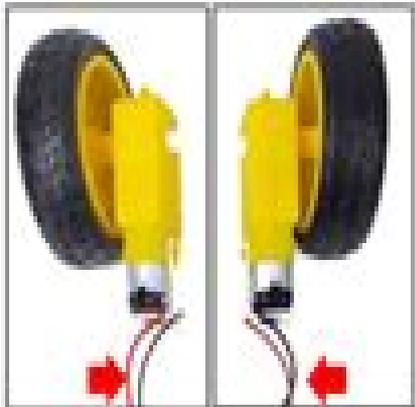


Robot Car with 4 DC motors - 4 different orientations

Note:
TT motor
wires always
face inwardly



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M4	M4A	BLACK
	M4B	RED

*assuming the red box is the robot car casing

4 Dc Motors Nus Uav

Erik Cuevas, Daniel Zaldivar, Ernesto Ayala, Óscar González, Fernando Vega

4 Dc Motors Nus Uav:

Design and comparison of two brushless DC drives for an electric propulsion system of solar-power unmanned aerial vehicles Dong, Rong, 2020-08-26 The electrical propulsion system as the core component of solar power Unmanned Aerial Vehicles UAVs for long duration flight requires high power density and stable drive technology Brushless DC motors BLDCM with high power and torque density and control algorithms suitable for drive system are given preference for the application in UAVs This dissertation is aimed at designing an improved BLDCM using only 4 interior magnet blocks to realize 8 poles compared to the conventional 8 magnet blocks structure The performances of both BLDCM designs have been analytically determined and the motor models were verified through finite element software in ANSYS Design and construction of the demonstrators of BLDCMs with the proposed and the conventional magnet structure have been carried out and a test bench for extensive performance comparison has been set up Since the proposed magnet structure leads to a particularity of the magnetic circuit the behavior of absolute and differential synchronous direct and quadrature inductances have been investigated by finite element model analysis and experiments Efficiency maps were generated and thermal characteristics have been measured to gain a comprehensive understanding of the two motors To reduce the uncertainty of sensor control for BLDCM a high speed good linearity analog isolation circuit to measure the voltages of 270 V DC voltage to realize sensorless control strategy has been designed The circuit combines a PI controller with fast operational amplifiers with a built in linearizing feedback photodiode loop of a linear optocoupler A 3D stator model was built to analyse the mechanical resonance frequencies and possible excitation by the electromagnetic radial force leading to vibration and noise for the proposed and conventional rotor structure Analytical calculation of natural mode frequencies has also been conducted to compare and validate the accuracy of FEM simulations and impact hammer testing experimental results Das elektrische Antriebssystem als Kernkomponente von unbemannten Solarflugzeugen UAVs Unmanned Aerial Vehicles f r Langzeitfl ge erfordert eine hohe Leistungsdichte und robuste Antriebstechnik B rstenlose Gleichstrommotoren BLDCM mit hoher Leistung und Drehmomentdichte sowie daf r angepasste Regelalgorithmen werden daher bevorzugt in UAVs eingesetzt Diese Dissertation zielt darauf ab einen verbesserten BLDCM mit nur 4 eingebetteten Magnetbl cken zu entwerfen um 8 Pole zu realisieren im Vergleich zu der herk mmlichen Struktur mit 8 Magnetbl cken Das Verhalten beider BLDCM Designs wurde analytisch ermittelt und die Motormodelle mit Hilfe von Finite Elemente Software in ANSYS verifiziert Design und Konstruktion der Prototypen mit der vorgeschlagenen und der herk mmlichen Magnetstruktur wurden durchgef hrt und es wurde ein Pr fstand f r einen umfassenden Leistungsvergleich aufgebaut Da die vorgeschlagene Magnetstruktur zu einem Magnetkreis f hrt bei dem die entgegengesetzten Pole keine Spiegelsymmetrie aufweisen wurden die L ngs und Querinduktivit t durch Finite Elemente Modellanalyse und Experimente absolut und differentiell untersucht Weiterhin wurden Wirkungsgradkennfelder erstellt und das thermische Verhalten untersucht um ein umfassendes Verst ndnis der

beiden Motoren zu erhalten Um das sensorbedingte Ausfallrisiko zu eliminieren wurde eine schnelle analoge Isolationsschaltung mit hoher Linearität und Stabilität zur Messung der gepulsten Spannungen bei 270V Gleichspannung entwickelt um eine sensorlose Steuerungsstrategie zu realisieren Die Schaltung verwendet einen linearen Optokoppler mit integrierter Rückkopplungsfotodiode sowie einen PI Regler mit schnellem Operationsverstärker im Rückkopplungspfad Ein 3D Statormodell wurde erstellt um die mechanischen Resonanzfrequenzen und die mögliche Anregung durch die elektromagnetische Radialkraft zu analysieren die zu Vibrationen und Geräuschen bei der vorgeschlagenen und herkömmlichen Rotorstruktur führt Es wurde auch eine analytische Modalanalyse durchgeführt um die Genauigkeit von FEM Simulationen und experimentellen Ergebnissen mit dem Impulshammer zu vergleichen und zu validieren

DC Motors, Speed Controls, Servo Systems Sam Stuart,2013-10-22 DC Motors Speed Controls Servo Systems An Engineering Handbook is a seven chapter text that covers the basic concept principles and applications of DC and speed motors and servo systems After providing the terminology symbols and systems of units this book goes on dealing with the basic theory motor comparison and basic speed control methods of motors The subsequent chapters describe the phase locked servo systems and their optimization and applications These topics are followed by a discussion of the developments made by Electro Craft in the field of DC Brushless Motors The final chapter provides revised data sheets on Electro Craft products and describes the models in the automatic range of speed controls servomotor controls and digital positioning systems This handbook is of great value to professional engineers and engineering students

Modeling and Test of the Efficiency of Electronic Speed Controllers for Brushless DC Motors Clayton Green,2015 Small electric uninhabited aerial vehicles UAV represent a rapidly expanding market requiring optimization in both efficiency and weight efficiency is critical during cruise or loiter where the vehicle operates at part power for up to 99% of the mission time Of the four components battery motor propeller and electronic speed controller ESC of the electric propulsion system used in small UAVs the ESC has no accepted performance model and almost no published performance data To collect performance data instrumentation was developed to measure electrical power in and out of the ESC using the two wattmeter method and current sense resistors data was collected with a differential simultaneous data acquisition system Performance of the ESC was measured under different load commanded throttle bus voltage and switching frequency and it was found that ESC efficiency decreases with increasing torque and decreasing bus voltage and does not vary much with speed and switching frequency The final instrumentation was limited to low voltage systems and error propagation calculations indicate a great deal of error at low power measurements despite these limitations an understanding of ESC performance appropriate for conceptual design of these systems was obtained

Development of a Brushless Dc Motor for Satellite Application Philip A. Studer,1964

Speed Control of Sensorless Brushless DC Motor MD Sabbir Ahmed,2018-11-22 This book is all about running a brushless DC motor using a sensorless technique The target of the work was to make a very simple operating method for a brushless motor

and formulate a speed control mechanism Initially the work was started with both considering back EMF and without considering back EMF Because of more complexity in the back EMF sensing method and as our intention was to make a simpler and cost effective operation so finally we assembled our project the without back EMF sensing Even though being a simple and inexpensive machine the performance was quite good However adding back EMF sensing in this machine can give it more dependability

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Permanent-magnet and Brushless DC Motors Takashi Kenjō, Shigenobu Nagamori, 1985 Small electric motors are crucial to the manufacture of industrial robots numerically controlled machines and computer peripherals such as disk drives and printers In this handbook Dr Kenjo considers two of the most important small motors permanent magnet and brushless DC motors explaining how to select the most suitable motor for the the intended application and how to design the drive circuitry The book provides clear descriptions of the basic machine structure the constructional relationships between conventional and brushless DC machines and the drive and control circuitry Generously illustrated and easy to follow

DC Motors Erik Cuevas, Daniel Zaldivar, Ernesto Ayala, Óscar González, Fernando Vega, 2024-07-31 This textbook provides readers with the knowledge and practical skills necessary to understand design and construct their own functional DC

motors using 3D printing technology The authors provide a clear and accessible introduction to the fundamental concepts of DC motors explaining how they work their different types and their applications in a way that is easy for readers with limited technical background to understand The book bridges the gap between theoretical knowledge and practical application so that readers see how theoretical concepts translate into real devices The authors guide readers through the process of building their own DC motors using 3D printing technology Readers can gain hands on experience creating functional devices using the step by step instructions illustrations and diagrams The authors focus on 3D printing enables readers to explore the field of customization so they can adapt motor designs to fit their specific needs whether for a project a prototype or an application

Electricity 4: AC/DC Motors, Controls, and Maintenance Jeffrey J. Keljik,2013-01-03 Updated to the 2011 National Electrical Code ELECTRICITY 4 AC DC MOTORS CONTROLS AND MAINTENANCE 10e delivers practical coverage of the AC DC motors controls and the maintenance portion of electrical theory content It offers quick access to current information on DC motors AC motors motor control electromechanical and solid state relays and timers synchronous motors installation sensyn units motor maintenance and more Combining thorough explanations of how systems work with relevant hands on examples of electrical system operation this text will help you develop the troubleshooting skills needed in the field Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

Brushless Dc Motors Thomas J. Sokira,Wolfgang Jaffe,1990 [Iml-Electricity 4 7e](#) Alerich & Keljik,Walter N Alerich,Jeff Keljik,2001-02-01 The fourth book in Delmar s Electricity 1 4 series Electricity 4 AC DC Motors Controls and Maintenance 7E introduces readers to DC and AC motors as well as many types of manual magnetic and electronic controls Throughout this edition motors are described in detail enabling the reader to develop a working knowledge of the operations advantages and disadvantages of each type A wide variety of controls are also explained to aid understanding while discussion of AC motors and associated controls helps to develop an appreciation of control schemes applied to various applications of the motors *DC motors, speed controls, servo systems*,1989 **Comparison of Drive Strategies for Brushless DC Motors** Zaker M. Azizi,Purdue University. School of Electrical Engineering,1990

Permanent Magnet Brushless DC Motor Drives and Controls Chang-liang Xia,2012-06-26 An advanced introduction to the simulation and hardware implementation of BLDC motor drives A thorough reference on the simulation and hardware implementation of BLDC motor drives this book covers recent advances in the control of BLDC motor drives including intelligent control sensorless control torque ripple reduction and hardware implementation With the guidance of the expert author team readers will understand the principle modelling design and control of BLDC motor drives The advanced control methods and new achievements of BLDC motor drives of interest to more advanced readers are also presented Focuses on the control of PM brushless DC motors giving readers the foundations to the topic that they can build on through more advanced reading Systematically guides readers through the subject introducing basic operational principles before moving

on to advanced control algorithms and implementations Covers special issues such as sensorless control intelligent control torque ripple reduction and hardware implementation which also have applications to other types of motors Includes presentation files with lecture notes and Matlab 7 coding on a companion website for the book **Optimizing Small Multi-Rotor Unmanned Aircraft** Stephen Prior,2018-09-18 This design guide was written to capture the author s practical experience of designing building and testing multi rotor drone systems over the past decade The lack of one single source of useful information meant that the past 10 years has been a steep learning curve a lot of self tuition and many trial and error tests Lessons learnt the hard way are not always the best way to learn This book will be useful for the amateur drone pilot who wants to build their own system from first principles as well as the academic researcher investigating novel design concepts and future drone applications *DC Motors, Speed Controls, Servo Systems* Electro-Craft Corporation,1980 **DC Motor Maintenance** NUS Training Corporation,1980 **Optimal Control Theory for DC Motors** John M. Matoba,1997 **Nonlinear Adaptive Speed and Field Weakening Controllers for DC Motors** Zuo Zong Liu,2000 **Investigation of DC Motors for Electric and Hybrid Electric Motor Vehicle Applications Using an Infinitely Variable Transmission** Benjamin Carson Groen,2011 Since the early 1900 s demand for fuel efficient vehicles has motivated the development of electric and hybrid electric vehicles Unfortunately some components used in these vehicles are expensive and complex AC motors complex electronic controllers and complex battery management systems are currently used in electric EV and hybrid vehicles *A load simulator for DC motors* Wei Liao Yong,1994

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