# Jenis Motor Aruhan

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motor control technology continues to play a vital role in the initiative to eliminate or at least decrease petroleum dependency and greenhouse gas emissions around the world increased motor efficiency is a crucial aspect of this science in the global transition to clean power use in areas such as industrial applications and home appliances but particularly in the design of vehicles summarizes the evolution of motor driving units toward high efficiency low cost high power density and flexible interface with other components ac motor control and electric vehicle applications addresses the topics mentioned in its title but also elaborates on motor design perspective such as back emf harmonics loss flux saturation and reluctance torque etc maintaining theoretical integrity in ac motor modeling and control throughout the author focuses on the benefits and simplicity of the rotor field oriented control describing the basics of pwm inverter and sensors he also clarifies the fundamentals of electric vehicles and their associated dynamics motor issues and battery limits a powerful compendium of practical information this book serves as an overall useful tool for the design and control of high efficiency motors

generously illustrated with over 1600 dispaly equations and more than 145 drawings

diagrams and photographs this book is a handy single source reference suited to readers with a wide span of educational backgrounds and technical experience comprehensive in both scope and depth this manual covers all significant aspects of the field such as amperes law and faraday s law emphasing basic explanations of motor behaviour derives all important equations and relationships required to analyze design and apply polyphase induction motors uses worldwide si units or international mks system of units as well as practical units used in the us and shows how to apply working equations to real life situations with numerical examples and more

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often called the workhorse of industry the advent of power electronics and advances in digital control are transforming the induction motor into the racehorse of industrial motion control now the classic texts on induction machines are nearly three decades old while more recent books on electric motors lack the necessary depth and detail on ind

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