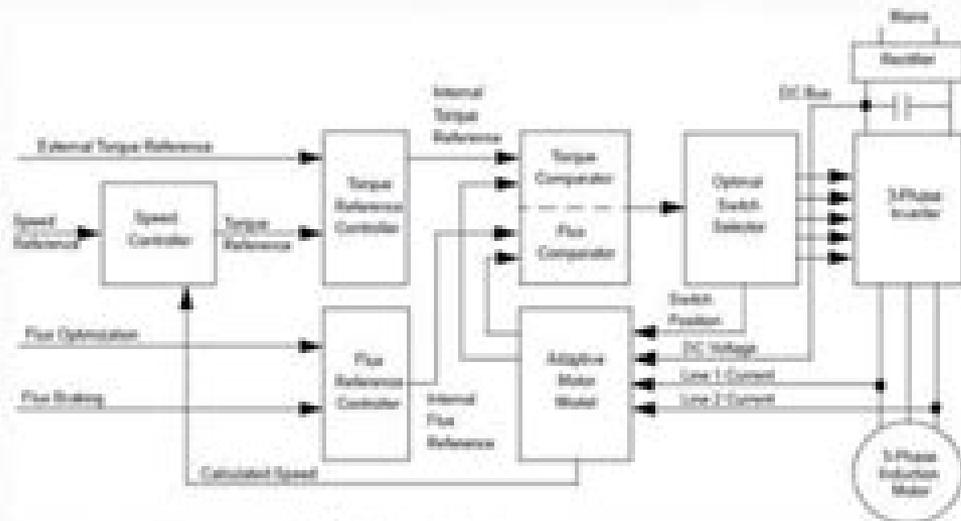


Direct torque control

- Direct torque control was invented by Manfred on 20th October 1984
- Controls the torque therefore the speed of the motor
- No speed or position sensor needed



[1] DTC Block Diagram

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High Performance AC Drives Mukhtar Ahmad,2010-09-08 Variable speed is one of the important requirements in most of the electric drives Earlier dc motors were the only drives that were used in industries requiring variation over a wide range of speed with step less variation or requiring fine accuracy of speed control Such drives are known as high performance drives AC motors because of being highly coupled non linear devices can not provide fast dynamic response with normal controls However recently because of ready availability of power electronic devices and digital signal processors ac motors are beginning to be used for high performance drives Field oriented control or vector control has made a fundamental change with regard to dynamic performance of ac machines Vector control makes it possible to control induction or synchronous motor in a manner similar to control scheme used for the separately cited dc motor Recent advances in artificial intelligence techniques have also contributed in the improvement in performance of electric drives This book presents a comprehensive view of high performance ac drives It may be considered as both a text book for graduate students and as an up to date monograph It may also be used by R D professionals involved in the improvement of performance of drives in the industries The book will also be beneficial to the researchers pursuing work on sensorless and direct torque control of electric drives as up to date references in these topics are provided

Electric Drives Ion Boldea,Syed A. Nasar,2016-09-15 Electric Drives provides a practical understanding of the subtleties involved in the operation of modern electric drives The Third Edition of this bestselling textbook has been fully updated and greatly expanded to incorporate the latest technologies used to save energy and increase productivity stability and reliability Every phrase equation number and reference in the text has been revisited with the necessary changes made throughout In addition new references to key research and development activities have been included to accurately reflect the current state of the art Nearly 120 new pages covering recent advances such as those made in the sensorless control of AC motor drives have been added as have two new chapters on advanced scalar control and multiphase electric machine drives All solved numerical examples have been retained and the 10 MATLAB Simulink programs remain online Thus Electric Drives Third Edition offers an up to date synthesis of the basic and advanced control of electric drives with ample material for a two semester course at the university level

Deadbeat Direct Torque Control of Induction Machines Using Self-sensing at Low and Zero Speed Barbara H. Kenny,2001

Variable Speed Generators Ion Boldea,2015-09-03 Variable Speed Generators the second of two volumes in the Electric Generators Handbook provides extensive coverage of variable speed generators in distributed generation and renewable energy applications around the world The book delves into the steady state transients control and design of claw pole rotor synchronous induction permanent magnet PM assisted synchronous and switched reluctance starter alternators for electric hybrid vehicles It discusses PM synchronous transverse flux PM and flux reversal PM generators for low speed wind and hydro energy conversion It also explores linear motion alternators for residential and spacecraft applications Numerous

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Technologies Gi-Chul Yang,Sio-long Ao,Len Gelman,2014-07-08 This book contains fifty eight revised and extended research articles written by prominent researchers participating in the Advances in Engineering Technologies and Physical Science conference held in London U K 4 6 July 2012 Topics covered include Applied and Engineering Mathematics Computational Statistics Mechanical Engineering Bioengineering Internet Engineering Wireless Networks Knowledge Engineering Computational Intelligence High Performance Computing Manufacturing Engineering and industrial applications The book offers the state of art of tremendous advances in engineering technologies and physical science and applications and also serves as an excellent reference work for researchers and graduate students working on engineering technologies and physical science and applications *Motors & Drives* Dave Polka,2020-01-28 *Motors Drives A Practical Technology Guide* 2nd Edition This practical guide developed by Dave Polka an industry veteran with more than 30 years of experience is an invaluable resource for design engineers automation and control specialists maintenance technicians and students The basic theories of AC and DC drives haven t changed but the technology certainly has and this new edition takes a fresh look at how market demands have advanced motor and drive technology to lead the industry in new directions The second edition incorporates significant new material including discussions on AC drives and machine safety Application specific drives and soft starters Enhanced programmability for AC drives including adaptive function block sequential and IEC 61131 3 programming Master leader follower Ethernet fiber optic and PLC communications The principles of DC and variable frequency AC drive technology An overview of drive components and types of drives with special emphasis given to common applications and energy savings DC and AC motor and drive operation as well as AC vector servo and permanent magnet

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