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### **Chapter 4 Direct Torque Control**

Direct torque control (DTC) for motor drive applications has been well established in both academia and industry. It offers a simple control structure, fast response, and robust operation [35]. The torque and flux references are tracked using hysteresis controllers and a switching table implemented with LUT is used for selecting the optimum converter's output.

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## **Direct Torque Control - an overview | ScienceDirect Topics**

4) Development of sliding mode direct torque control (SM-DTC) strategy and algorithm for the Induction Motor. 5) Performance comparisons and inference between the v/f and DTC. 1.4 Scope of the Study The study of electric vehicles is vast, embodying different disciplines. This work centres on control strategies for propulsion of an electric vehicle.

## **Sliding Mode Direct Torque Control Of Three Phase ...**

CHAPTER 4 A NEW FIELD WEAKENING CONTROL APPROACH FOR A DIRECT TORQUE AND FLUX CONTROLLED SURFACE PERMANENT MAGNET MOTOR ... As direct torque control inherently requires flux observers, it is straightforward to extend the flux observers into position and speed feedback. This

## **Performance Improvement of Direct Torque Controlled ...**

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Chapter 4 This chapter entitled “simulation result of the Developed Direct Torque Control Model” a numerical simulation has been perform and the validity of the developed DTC model under torque, flux control mode and hysteresis effect being analyzed and presented. Chapter 5 These chapters entitled “conclusions and further work” where ...

### **DIRECT TORQUE CONTROL INDUCTION MOTOR DRIVES AZMAN BIN MAT ...**

8 Direct torque control | Technical guide No. 1 Chapter 2 - Evolution of direct torque control What is a variable speed drive? To understand the answer to this question we have to understand that the basic function of a variable speed drive (VSD) is to control the flow of energy from the mains to the process.

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Table 4.1 Comparison between Field Oriented Control and Direct Torque Control

No	Features	Field Oriented Control	Direct Torque Control
1.	Coordinate reference axis	Synchronous rotating d-q	Stationary d-q
2.	Controlled variables	- Torque - Rotor flux	- Torque - Stator flux
3.	Control variables	- Stator currents	- Stator voltage space vector
4.	...		

## **CHAPTER 4 CONTROL TECHNIQUES FOR SRM DRIVE**

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8 Direct torque control | Technical guide No. 1 Chapter 2 - Evolution of direct torque control What is a variable speed drive? To understand the answer to this question we have to understand that the basic function of a variable speed drive (VSD) is to control the flow of energy from the mains to the process.

## **ABB drives Technical guide book**

Figure 3.3 Schematic of Direct Torque Control. Figure 3.4 Block Diagram of Torque Control (SV-PWM) System Figure 4.1 PMSM FOC model Using MATLAB/Simulink ® Figure 4.2 Simulation Model Of PMSM DTC System Using MATLAB/Simulink ® Figure 4.3 Simulation Model Of PMSM DT-SVPWM System Using MATLAB/Simulink ® Figure 4.4 The Fuzzy Logic Controller

## **DIRECT TORQUE CONTROL OF PERMANENT MAGNET SYNCHRONOUS MOTOR**

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3.4. Direct Flux and Torque Control (DTC) 49 3.4.1. Basics of Direct Flux and Torque Control 49 3.4.2. Classical Direct Torque Control (DTC) – Circular Flux Path 53 3.4.3. Direct Self Control (DSC) – Hexagon Flux Path 61 3.5. Summary 64 4. Direct Flux and Torque Control with Space Vector Modulation (DTC-SVM) 66 4.1.

### **Space Vector Modulated - Direct Torque Controlled (DTC**

...

Figure 4.3 Phasor diagram for independent torque and flux variation in vector control Fundamentals of vector control implementation principle with machine d e-q e model and coordinate transformations used are shown in Figure 4.4. There are two methods in vector control, one is feedback or direct vector control method proposed by (Blaschke 1972 ...

## **CHAPTER 4 SPEED CONTROL TECHNIQUES OF INDUCTION**

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## **MOTOR DRIVES**

302 CHAPTER 9 / DIRECT TORQUE AND FLUX CONTROL (DTFC) OF AC DRIVES In search of a simpler and more robust control system capable of preserving high performance, the direct torque and flux control (DTFC) method was born. The DTFC principle for induction motors was introduced in 1985-1986 [3, 4] and generalized for all ac drives in 1988 [5]. By 1995 DTFC (as DTC) for induction motors reached ...

## **Chapter 9 - CHAPTER 9 Direct Torque and Flux Control(DTFC ...**

Chapter 5 Direct Torque Control using Matrix Converters \_\_\_\_\_  
The Direct Torque Control (DTC) is a high-dynamic and high performance control technique for induction motor drives which has been developed in the last two decades [1]-[8] as possible alternative solution to DC servo drives.



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## **Direct Torque Control using Matrix Converters**

CDBG-DR Implementation Manual Chapter 4 Financial Management Page 3 of 20 . CHAPTER 4 - FINANCIAL MANAGEMENT . 4.1 Introduction . Financial management touches on nearly all phases and aspects of a CDBG-DR program. All costs charged by a Subrecipient must be necessary, reasonable, allowable, and allocable to the CDBG-DR grant, as further ...

## **CHAPTER 4 - FINANCIAL MANAGEMENT**

Chapter 4 Vehicle Dynamics 4.1. Introduction In order to design a controller, a good representative model of the system is ... The combined dynamic system can be represented as shown in Figure 4.5. The control input is the applied torque at the wheels, which is equal to the

## **Chapter 4 Vehicle Dynamics**

$V_{AD} = 4.5$  volts Thus we see there is no such thing as

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“voltage” at a single point in a circuit. The concept of voltage has meaning only between pairs of points in a circuit, just as the concept of potential energy for a mass has meaning only between two physical locations: where the mass is, and where it may potentially fall.

### **Chapter 4 - Basic Direct Current (DC) Theory | Automation**

...

direct torque control (MPDTC) inherits the core objectives of DTC and uses the elements of model predictive control to minimize the switching frequency of the inverter. In Chapter 2, the drive system and direct torque control are briefly presented. Then, the concept of model pre-dictive direct torque control and its ingredients are briefly ...

### **Computationally Efficient Model Predictive Direct Torque**

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5.2.3 Direct Torque Control Techniques and Its Objectives (A) Flux Hysteresis Control Loop (B) Torque Hysteresis Control Loop 44 5.2.4 Voltage Vector Switching Selection 45 5.3 Simulation Results 46 5.4 Summary 59 CHAPTER 6. Conclusion & Scope for Future Work 60 6.1 Conclusion 61 6.2 Scope for Future Work 62 REFERENCES 63

## **DIRECT TORQUE CONTROL OF SWITCHED RELUCTANCE MOTOR DRIVES**

In this chapter basic principles of direct torque control are also presented. Those basis are common for classical DTC, which is presented in Chapter 3 and for DTC-SVM method. Chapter 4 is devoted to analysis and synthesis of DTC-SVM control technique.

## **Space Vector Modulated - Direct Torque Controlled (DTC**

...

a comparitve study between vector control and direct torque

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