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Control of Induction Machines Speed
Estimated Direct Torque Control - DTC
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Fundamental of Direct Torque Control
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What is FOC? (Field Oriented Control)
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4 CHAPTER 5 TORQUE CONTROL IN
LEGGED LOCOMOTION Direct control
of interaction forces or torques can also be
used to reduce human-robot interface
impedance [9,18] Torque control provides
a simple means of manipulating the ?ow
of

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Chapter 4 Direct Torque Control Chapter

4 Direct Torque Control Direct torque control (DTC) is different from the FOC scheme in the sense that the reference frame here is stator flux instead of rotor flux, which is used in the FOC scheme. The DTC control scheme abandons the stator current control philosophy: it directly controls the flux itself.

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CHAPTER 2. DIRECT TORQUE

CONTROL. PRINCIPLES and ... 214 -

Direct Torque Control In Direct Torque Control it is possible to control directly the stator flux and the torque by selecting the appropriate inverter state Its main features are as follows [LUD 1] [VAS 2]: § Direct torque control and direct stator flux control § Indirect control ...

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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

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Direct Torque Control using Matrix
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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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Chapter 4 Direct Torque Control And
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Torque Control With Space Vector
Modulation (DTC-SVM) Direct torque
control can be considered a simplified
version of the FOC oriented to the stator
field and without any current control
loops.

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Chapter 4 Direct Torque Control 4.4
DIRECT TORQUE CONTROL In recent
years the high performance induction
machine drives market has been
dominated by the rotor flux orientated
vector control technique. This offers
similar dynamic torque control
performance to that of the DC machines,
giving fast, near step changes in machine
torque. CHAPTER 4 CONTROL
TECHNIQUES FOR SRM DRIVE Page
1/5

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Direct torque control (DTC) for motor
drive applications has been well

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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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4.4 DIRECT TORQUE CONTROL In recent years the high performance induction machine drives market has been dominated by the rotor flux orientated vector control technique. This offers

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Similar dynamic torque control Of

performance to that of the DC machines, giving fast, near step changes in machine torque.

CHAPTER 4 CONTROL TECHNIQUES FOR SRM DRIVE

The fundamental principles of direct torque control (DTC) of permanent magnet synchronous (PMS) motors are presented in this chapter. The basic DTC system is then described. The operating limits of PMS machines under DTC are presented in terms of current limit, voltage limit, and flux linkage limit.

Direct Torque Control - Oxford Scholarship

Direct torque control describes the way in which the control of torque and speed are directly based on the electromagnetic state of the motor, similar to a DC motor, but

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contrary to the way in which traditional PWM drives use input frequency and voltage.

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the solutions for you to be successful. As
understood, expertise does not suggest that
you have astonishing points.
Comprehending as without difficulty as
contract even more than new will pay for
each success. adjacent to, the proclamation
as skillfully as perception

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There are two hysteresis control loops, one
for the control of torque and other for the
control of stator flux. The flux controller
controls the machine operating flux to
maintain the magnitude of the operating
flux at the rated value till the rated speed.
Torque control loop maintains the torque
close to the torque demand.

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