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Flux-Weakening
Regime Operation of
an Interior Permanent-
Magnet Synchronous
Motor Drive. Abstract:
The interior permanent
magnet (IPM)
synchronous motor is
compatible with
extended-speed-range

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Control Of
Permanent Magnet
Synchronous
constant-power
operation by means of
flux-weakening control.
Flux weakening uses
stator current
components to counter
the fixed-amplitude
magnetic airgap ...

Flux-Weakening Regime Operation of an Interior Permanent ...

Speed control of
interior permanent
magnet synchronous
motor drive for the flux

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weakening operation.

Abstract: A novel flux-weakening scheme for the interior permanent magnet synchronous motor (IPMSM) is proposed. This is implemented based on the output of the synchronous PI current regulator-reference voltage to the PWM inverter.

**Speed control of
interior permanent
magnet synchronous**

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FLUX-WEAKENING
CONTROL FOR
PERMANENT-MAGNET
SYNCHRONOUS
MOTORS BASED ON Z-
SOURCE INVERTERS

Muyang Li Marquette
University, 2014

Permanent magnet
synchronous machines
(PMSMs) have high
efficiency, high power
density, high torque-to-
inertia ratio, and fast
dynamic response.

These features

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Flux-Weakening Control for Permanent-Magnet Synchronous ...

For the synchronous permanent magnet motor, the rotor flux is fixed and determined by the magnets.

Hence, when controlling a PMSM, i_{d_ref} should be set to zero except when in flux-weakening control mode. On the other hand, ACIM motors

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need i_d current to create a rotor flux, so the flux reference must not be zero.

Sensorless-FOC With Flux-Weakening and MTPA Motor Drives

system in electric vehicles, a flux weakening control algorithm is designed to improve the speed range of motor. To verify the effectiveness of the control strategy designed, the vector

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control system of
permanent magnet
synchronous motor
based on the rotor
magnetic field
orientation is built by

MTPA AND FLUX WEAKENING CONTROL OF PERMANENT MAGNET ...

build a SVPWM-based
simulation model of
flux weakening control
of permanent magnet
synchronous motor,

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the simulation results show that the designed simulation model is correct, the system has good

(PDF) Space Vector Flux Weakening Control of PMSM Drivers

Field-Weakening Control When you use the FOC algorithm to run a motor with rated flux, the maximum speed is limited by the stator voltages, rated

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current, and back emf.
This speed is called the
base speed. Beyond
this speed, the
operation of the
machine is complex
because the back emf
is more than the supply
voltage.

Field-Weakening Control (with MTPA) of PMSM - MATLAB

...

The control method
presented relies on the
field orientated control

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(FOC) together with a field-weakening operation. This algorithm maintains efficiency in a wide range of speeds, above nominal speed, and takes into consideration torque changes with transient phases by controlling the flux directly from the rotor coordinates.

Implementation of Vector Control for PMSM Using the ...

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When the nominal flux is required, an optimal control is used in order to minimise the line current amplitude for the required torque. When a flux weakening is needed, the amplitude and the phase of the current are changed to extend the torque-speed operating range. The Speed Controller is used in torque regulation mode.

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AC6 - 100 kW

Interior Permanent Magnet Synchronous Motor ...

To keep control above the base speed, a stator flux reduction is imposed (“flux-weakening” or “field-weakening”). Although this can result in a lower torque output, it allows to maintain the current control, since the voltage vector resulting from current regulation can be kept

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within the magnitude
limit.

Flux-Weakening: Introduction

Electric drives Blog

This paper presents a simple robust integrator-like flux-weakening regulator for permanent magnet synchronous machines, based on a general closed-loop flux-weakening which uses a reference stator...

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(PDF) Closed-loop flux-weakening for permanent magnet

...
Synchronous
control ODescription of
sensorless technique
used for FOC algorithm
Here is the Agenda for
today's seminar. We
will talk about Field
Oriented Control (FOC)
specifically targeting
Permanent Magnet
Synchronous Motors
(PMSM). We will cover
the main block for Field
Oriented Control.

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Sensorless Field Oriented Control (FOC) for Permanent Synchronous

This master thesis deals with control of PM motor with field weakening capability for electric vehicle (EV) application .A PMSM motor model has been analyzed in a drive able to control the motor both in the constant-torque (constant flux) and in

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Control Of
the constant-

voltampere (flux
weakening) regions.

Today's motor for
traction in electric
vehicle are most often
induction motors.

[PDF] Field Weakening Control of Pmsm | Semantic Scholar

In a conventional
permanent magnet
(PM) machine, the air-
gap flux produced by
the PM is fixed. It is

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Synchronous

difficult to enhance the air-gap flux density due to limitations of the PM in a series-magnetic circuit.

However, the air-gap flux density can be weakened by using power electronic field weakening to the limit of demagnetization of the PMs.

**A Machine Approach
for Field Weakening
of Permanent-
Magnet ...**

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In this paper, a robust flux-weakening control scheme of PM synchronous machines is studied. Based on a novel current control concept, a speed/flux-weakening controller (SFWC) is proposed for the flux-weakening control of PMSM. Comprehensive analysis is conducted on the operations of PMSM controlled by SFWC in the flux-weakening region.

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**FLUX-WEAKENING
CONTROL OF
PERMANENT
MAGNET
SYNCHRONOUS ...**

Described the surface-mount permanent magnet synchronous motor used in electric vehicles operation principle, introduce the current limit trajectory and the voltage limit trajectory based on its mathematical model, Flux-weakening control

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extends the speed range of the machine effectively.

Conventional flux-weakening speed control above the rate speed, the q-axis current and d-axis current ...

Flux-weakening control of permanent magnet synchronous ...

Interior permanent magnet motor (IPMSM) was used as air

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conditioner compressor to reduce the power consumption and improve the performance of the system. Two control methods including maximum torque per ampere (MTPA) and flux-weakening methods were employed to increase the speed range of the air conditioner compressor.

Increase

**Control Of
Performance of
IPMSM by
Combination of
Magnet
Maximum ...**

Interior permanent magnet synchronous motors can be applied to applications requiring wide-speed operation by means of flux-weakening control. While due to the fixed capacity of PWM inverter, the high speed operation range of interior permanent magnet synchronous

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Synchronous
motor (IPMSM) is mainly limited by the saturation of current regulator. In constant power region, instead of the available voltage

...

Research on Decoupling Control Strategy for Interior

...

Online Optimal Flux-Weakening Control of Permanent-Magnet Brushless AC Drives Z. Q. Zhu, Member, IEEE,

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Y. S. Chen, and David

Howe Abstract— An

enhanced online

optimal control

strategy, which

maximizes the flux-

weakening

performance of a

brushless ac motor, is

described, and applied

to motors having

different

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