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Motor Part 1

Modeling of Switched
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~~Motors (SRM) are the
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vehicles~~

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Part 1 Tesla Model 3

Motor explained SRM

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Motors By: Dr. Rabee'

H. Thejel Model

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Motors What

Engineers Found

When They Tore

Apart Tesla's Model 3

Magnet assisted

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Electric Drives - Self

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motor, test run TIIC

IDC 2015 – Team

1599 “ A novel linear

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switched reluctance
motor drive based
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Drives Modeling

Industrial interest in

switched reluctance

motor (SRM) drives

has varied since

1850s. The recent

surge of activity since

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the 1980s has spurred university and industrial research and product development in the U.K. and U.S. and in a very small measure in some other countries. This interest has been primarily due to the emerging markets for variable speed drives in consumer and

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industrial products,
such as home
appliances, air
conditioning, hand
tools, fans, pump
motor drives,
extruders, and ...

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The switched
reluctance machine

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(SRM) is the least expensive electrical machine to produce, yet one of the most reliable. As such, research has blossomed during Switched Reluctance Motor Drives: Modeling, Simulation, Analysis, Design And Applications

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Switched reluctance motor (SRM) offers many advantages over other motors

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mainly for their simple mechanical structure and magnetless operation. After first demonstration in mid 18 ' s, SRM not only survived but also gaining interest exponentially amongst researchers due to availability of advanced, sophisticated and

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economical power
electronics devices.

Modelling &

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Motor & Drive

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Modeling Motor Drives enables

both students and

engineers to learn all

aspects of SRM drive

systems and

appreciate the

interdependence of

the various

subsystems in

performance...

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(SRM) is the least

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reliable. As such,

research has

blossomed during the

last decade, and the

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SRM and variable
drive systems using
SRMs are receiving
considerable
attention from
industry.

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Krishnan. CRC Press,
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Motors using

Modelica Y. Ji J. Bals

Abstract—This paper
presents a novel

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machines. In order to
deal with the
nonlinear

characteristics of
switched reluctance
drives, an analytical

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approximation
function is applied
when building a
motor model.

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Description. The
Switched Reluctance
Motor (SRM) block
represents three most
common switched

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reluctance motors:
three-phase 6/4 SRM,
four-phase 8/6 SRM,
five-phase 10/8 SRM,
as shown in the
following figure. The
electric part of the
motor is represented
by a nonlinear model
based on the
magnetization
characteristic
composed of several
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and on the torque characteristic computed from the magnetization curves.

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Model the dynamics of switched reluctance motor -

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coordinated

concurrently with the

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design of the motor to obtain an optimal design of the drive as a whole. Unlike the motors that operate with sinusoidal voltages and currents, the converter topology in an SRM is dependent on the machine design.

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Reluctance

The switched reluctance motor is an electric motor that runs by reluctance torque. Unlike common brushed DC motor types, power is delivered to windings in the stator rather than the rotor. This greatly simplifies mechanical design as power does not have

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to be delivered to a moving part, but it complicates the electrical design as some sort of switching system needs to be used to deliver power to the different windings. Electronic devices can precisely time switching, facilitating SRM configurati

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Switched reluctance motor - Wikipedia
Switched Reluctance Motor Drives The section below giving an overview of switched reluctance motors & drives was first published in 1998 and has been referenced from various sources over the intervening years.
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Reluctance Motor Drives The

name switched reluctance has now become the popular term for this class of electric machine.

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Motor Drives - Fleadh

Principle of Operation of The Switch

Reluctance Motor

(SRM). Steady-State

Performance of the

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SRM, Design of SRM,
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Solidworks model of a
Switched Reluctance
Motor The designed
switched reluctance
motor is defined as a
three phase machine,
which has six inner
stator poles, eight
outer rotor poles and
a shaft, as shown in

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Figure 1. Figure 1 -

3D model of a
switched reluctance
motor EMS

Simulation of the In-

Wheel Switched
Reluctance Motor

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SRMs are receiving considerable attention from industry.

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textbook covering the major aspects of

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