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~~Generators~~

~~Short circuit~~

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Behaviour in
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Transients in
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- 01 #35

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Numerical
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machine, in~~

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~~Generator #7~~

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~~Machines~~

~~Determination of~~

~~X_d and X_q Slip~~

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Power? Why not 6
or 12? Lecture
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Lecture 79:

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Currents Of

Synchronous m/c

| Symmetrical

Three Phase

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Generator part 3

Sequence

Impedances

~~\u0026 Networks~~

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Machines An

introduction of

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Machines

(Generators and

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Sub-transient

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For synchronous
3 phase
electrical
generator
machine design,
the ability to
predict the
subtransient
reactance of a

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Generator
machine design
Subtransient
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Prediction
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generated within

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the machine
during an event
such as a 3
phase ...

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Reactance
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This reactance
is called
subtransient
reactance and is
denoted by X'' .

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The first few
cycles come
under sub-
transient state.
After a first

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(Isaac Council, Lee Giles, Pradeep Teregowda): For synchronous 3 phase electrical generator machine design,

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instead they are
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Although the
resistance of
the windings of
a synchronous
generator are

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generally
negligible
compared to
their reactance,
they do play a
role in the
decay rates of
the transient
currents in the
form of L/R time
constants.

~~An explanation
of the origin of~~

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~~a generator's
subtransient . . .~~

The reactance during these first two or three cycle is least and the short circuit current is high. This reactance is called subtransient reactance and is denoted by X'' .

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The first few
cycles come
under sub-
transient state.

Prediction

~~Concept of
Subtransient,
Transient &
Steady State ...~~

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Reactance [X_d] -
'The Push'

Modern
alternators,

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Generator with a control system capable of supporting a sustained steady state short circuit current, will typically sustain 2 to 4 x rated current under a steady state three phase short circuit

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condition.

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reactance X'' to
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synchronniho
stroje znance
ovlivnuji jeho
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poruchovych
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Prvni ...

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Subtransient
(enabling ... X_{sc} - Short-circuit
reactance c/c.

The most common
values for a
synchronous

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Generator are:

State:

Subtransient

X''_d : Transient

X'_d : Permanent

X_d : X_{sc} : 10 -

20%: 15 - 25%:

200 - 350%:

Example.

Calculation

method for an

alternator or a

synchronous

motor.

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Generator 15
MVA; Voltage $U =$
10 kV ; $X'd =$
20%; All
electrical
installations
have to be
protected ...

~~Calculating the
short circuit
current across
the terminals~~

...

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Generator
Subtransient
Reactance
Prediction

Sub transient reactance The period immediately after a short circuit on the generator and lasting upto 2-3 cycles, is called sub transient period. The current during this period is

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Generator and is determined by sub transient reactance. The value of sub transient reactance is about half of the leakage reactance.

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Prediction