

SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore - 641 107



AN AUTONOMOUS INSTITUTION

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

POWER SYSTEM ANALYSIS UNIT – III STEPPER MOTOR

Non-linear Analysis

The Jos
$$\frac{df}{dt}$$
 + Dos f + f f

The above eq. $ij \div ky$ f

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The Jos f

T

$$f_{1}e^{\circ} = \left(\frac{T_{m}-T_{f}}{J_{\theta s}}\right)\frac{1}{Dl_{J}} + C$$

$$f_{1} = \frac{T_{m}-T_{f}}{J_{\theta s}} \times \frac{J}{D} + C$$

$$f_{1} = \frac{T_{m}-T_{f}}{D\theta s} + C$$

$$c = f_{1} - \left(\frac{T_{m}-T_{f}}{D\theta s}\right) - C$$

$$ds = g + \left(\frac{T_{m}-T_{f}}{D\theta s}\right) + C$$

$$ds = g + \left(\frac{T_{m}-T_{f}}{D\theta s}\right) + C$$

$$ds = \frac{2l_{J}t}{D\theta s} + \left(f_{1} - \frac{T_{m}-T_{f}}{D\theta s}\right) = \frac{2l_{J}t}{D\theta s}$$