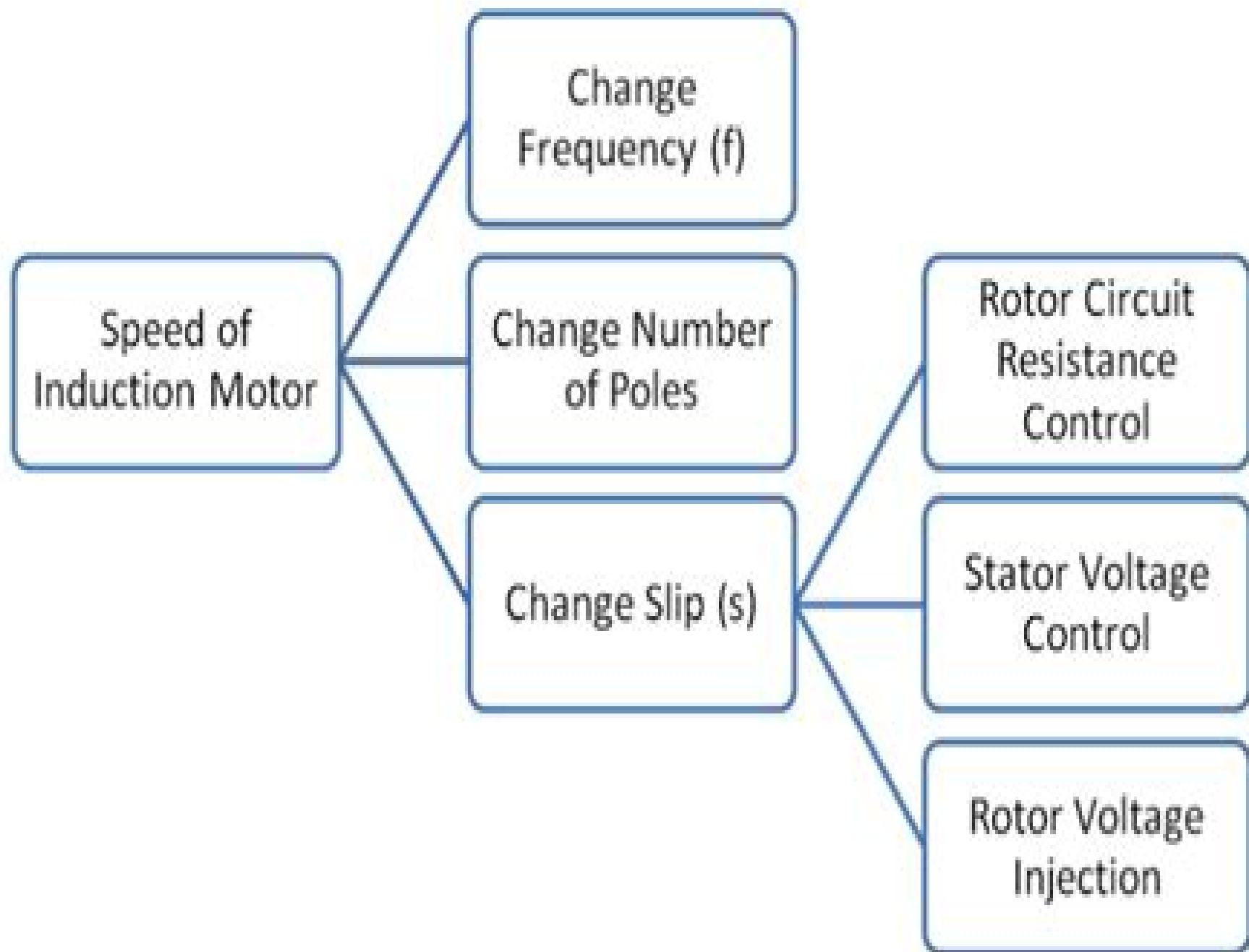




Induction Motor Speed Control

Sagarkumar Patel



Induction Motor Speed Control:

A Preliminary Survey of Induction Motor Speed-control Rudolf Farkas, 1967 **Speed Control of a Variable Speed Induction Motor** George Gillaspie, Harry H. Heaton, 1905 Induction Motor Speed Control Using Tapped Stator Windings Donald S. Zinger, 1988 **Speed Control of Three-phase Induction Motor Using Variable Frequency Drive** Sagarkumar Patel, 2018

Abstract There are various methods for speed control of induction motors This paper specifically describes one of the methods speed control using variable frequency The proposed system is a MATLAB simulink model which is a closed loop model designed to achieve desired speed control of a three phase induction motor by varying its frequency The simulink model has four main blocks namely the inverter synchronous machine proportional integral control and current hysteresis control For accuracy of output results and simplicity we have used dq to abc transformation block and sin function block The inverter is comprised of six integrated gate bipolar transistors IGBTs which are fired by gate pulses generated by current hysteresis control block The inverter generates variable frequency and variable voltage output which is given to motor terminals The project presents the working principle of variable frequency drive VFD its performance and the use of Pulse Width Modulation PWM in a three phase inverter to control the frequency and thus the speed The proposed method conformed to performance predictions and delivered the desired outputs

Power Electronics Handbook Muhammad H. Rashid, 2010-07-19 Power electronics which is a rapidly growing area in terms of research and applications uses modern electronics technology to convert electric power from one form to another such as ac dc dc dc dc ac and ac ac with a variable output magnitude and frequency Power electronics has many applications in our every day life such as air conditioners electric cars sub way trains motor drives renewable energy sources and power supplies for computers This book covers all aspects of switching devices converter circuit topologies control techniques analytical methods and some examples of their applications 25% new content Reorganized and revised into 8 sections comprising 43 chapters Coverage of numerous applications including uninterruptable power supplies and automotive electrical systems New content in power generation and distribution including solar power fuel cells wind turbines and flexible transmission

Neural and Fuzzy Logic Control of Drives and Power Systems Marcian Cirstea, 2002-10-08 Introduces cutting edge control systems to a wide readership of engineers and students The first book on neuro fuzzy control systems to take a practical applications based approach backed up with worked examples and case studies Learn to use VHDL in real world applications Introducing cutting edge control systems through real world applications Neural networks and fuzzy logic based systems offer a modern control solution to AC machines used in variable speed drives enabling industry to save costs and increase efficiency by replacing expensive and high maintenance DC motor systems The use of fast micros has revolutionised the field with sensorless vector control and direct torque control This book reflects recent research findings and acts as a useful guide to the new generation of control systems for a wide readership of advanced undergraduate and graduate students as well as practising engineers The authors

guide readers quickly and concisely through the complex topics of neural networks fuzzy logic mathematical modelling of electrical machines power systems control and VHDL design Unlike the academic monographs that have previously been published on each of these subjects this book combines them and is based round case studies of systems analysis control strategies design simulation and implementation The result is a guide to applied control systems design that will appeal equally to students and professional design engineers The book can also be used as a unique VHDL design aid based on real world power engineering applications

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Fuzzy Logic Based Speed Control of Three-Phase Induction Motor Drive Obinna Anyim,2017-06-19 Conventional controllers like the proportional integral differential PID would have being very effective not just for speed control alone if not for some complexities with individually controlling its respective controllers and summing up their individual contributions to effectively yield controlled signal output Also for its insensitivity to changes made to model parameters which may be as a result of misrepresentation of some control variables As a result of this developing an intelligent based fuzzy logic controller FLC became eminent and on this basis this book is written By varying the motor speed with input reference speed an error signal and a feedback loop is generated The FLC then operates on the principles of mapping with corrective measure of the error signal generated and it is regulated by sets of IF THEN rules integrating the Mamdani fuzzy inference approach The rules projected and formed are used to overcome the drawbacks of conventional controllers Since induction motors are widely used in many industries today most especially squirrel caged an intelligent approach to the control of these motors will save cost increase reliability and efficiency

Control Techniques Drives and Controls Handbook Bill Drury,2001 Annotation A comprehensive guide to the technology underlying drives motors and control units this title contains a wealth of technical information for the practising drives and electrical engineer

Induction Motor Speed Control Using Fuzzy Logic Mohammad Shaikhsaheb,2001

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