



Kaushik Das Sharma  
Jayanta Kumar Chandra

# **Microcontroller Based Embedded System for Induction Motor Protection**

With 8051 Assembly Level Code



# Microcontroller Based Embedded System For Induction Motor Protection

**E Durkheim**

## **Microcontroller Based Embedded System For Induction Motor Protection:**

Microcontroller Based Embedded System for Induction Motor Protection Das Sharma Kaushik,Chandra Jayanta Kumar,2014-12-10 Induction motors are the workhorses of industry because of their roughness and versatility The use of induction motors in industry is widespread and it can be exposed to different operational environments manufacturing defects etc The present work emphases on the development of a low cost 8051 core microcontroller based system that will monitor the electrical parameter like input voltage input current and power factor of the line During any abnormality the developed system will act to ensure the protection of the motor with various fault mitigation algorithms *Power System Protection in Smart Grid Environment* Ramesh Bansal,2019-01-15 With distributed generation interconnection power flow becoming bidirectional culminating in network problems smart grids aid in electricity generation transmission substations distribution and consumption to achieve a system that is clean safe protected secure reliable efficient and sustainable This book illustrates fault analysis fuses circuit breakers instrument transformers relay technology transmission lines protection setting using DIGSILENT Power Factory Intended audience is senior undergraduate and graduate students and researchers in power systems transmission and distribution protection system broadly under electrical engineering

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*Computational Methodologies for Electrical and Electronics Engineers* Singh, Rajiv, Singh, Ashutosh Kumar, Dwivedi, Ajay Kumar, Nagabhushan, P., 2021-03-18 Artificial intelligence has been applied to many areas of science and technology including the power and energy sector Renewable energy in particular has experienced the tremendous positive impact of these developments With the recent evolution of smart energy technologies engineers and scientists working in this sector need an exhaustive source of current knowledge to effectively cater to the energy needs of citizens of developing countries Computational Methodologies for Electrical and Electronics Engineers is a collection of innovative research that provides a complete insight and overview of the application of intelligent computational techniques in power and energy Featuring research on a wide range of topics such as artificial neural networks smart grids and soft computing this book is ideally designed for programmers engineers technicians ecologists entrepreneurs researchers academicians and students

**Science Abstracts** ,1995 *Foundations and Frontiers in Computer, Communication and Electrical Engineering* Aritra Acharyya,2016-05-05 The 3rd International Conference on Foundations and Frontiers in Computer Communication and Electrical Engineering is a notable event which brings together academia researchers engineers and students in the fields of Electronics and Communication Computer and Electrical Engineering making the conference a perfect platform to share experience f *CAETE.* ,2005 *Proceedings* ,1999 *Applied Science & Technology Index* ,1997 **EDN** ,2005

**Electronic Business** ,2005 The management magazine for the electronics industry *Index to IEEE Publications*

Institute of Electrical and Electronics Engineers,1996 **Electric Motors and Control Systems** Frank Petruzzella,2009-05-08 This book will introduce the reader to a broad range of motor types and control systems It provides an overview of electric motor operation selection installation control and maintenance The text covers Electrical Code references applicable to the installation of new control systems and motors as well as information on maintenance and troubleshooting techniques It includes coverage of how motors operate in conjunction with their associated control circuitry Both older and newer motor technologies are examined Topics covered range from motor types and controls to installing and maintaining conventional controllers electronic motor drives and programmable logic controllers Publisher s description

Proceedings of the 2nd International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications Vinit Kumar Gunjan,Jacek M. Zurada,2022-01-10 This book contains original peer reviewed research articles from the Second International Conference on Recent Trends in Machine Learning IoT Smart Cities and Applications held in March 28 29th 2021 at CMR Institute of Technology Hyderabad Telangana India It covers the latest research trends and developments in areas of machine learning artificial intelligence neural networks cyber physical systems cybernetics with emphasis on applications in smart cities Internet of Things practical data science and cognition The book focuses on the comprehensive tenets of artificial intelligence machine learning and deep learning to emphasize its use in modelling identification optimization prediction forecasting and control of future intelligent systems Submissions were solicited of unpublished material and present in depth fundamental research contributions from a methodological application perspective in understanding artificial intelligence and machine learning approaches and their capabilities in solving a diverse range of problems in industries and its real world applications **Internet of Things and Data Mining for**

**Modern Engineering and Healthcare Applications** Ankan Bhattacharya,Bappaditya Roy,Samarendra Nath Sur,Saurav Mallik,Subhasis Dasgupta,2022-08-30 This book focusses on the Internet of Things IoT and Data Mining for Modern Engineering and Healthcare Applications and the recent technological advancements in Microwave Engineering Communication and applicability of newly developed Solid State Technologies in Bio medical Engineering and Health Care The Reader will be able to know the recent advancements in Microwave Engineering including novel techniques in Microwave Antenna Design and various aspects of Microwave Propagation This book aims to showcase the various aspects of Communication Networking Data Mining Computational Biology Bioinformatics Bio Statistics and Machine Learning In this book recent trends in Solid State Technologies VLSI and applicability of modern Electronic Devices in Bio informatics and Health Care is focused Furthermore this book showcases the modern optimization techniques in Power System Engineering Machine Design and Power Systems This Book highlights the Internet of Things IoT and Data Mining for Modern Engineering and Healthcare Applications and the recent technological advancements in Microwave Engineering Communication and

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The Impact of the 4th Industrial Revolution on Engineering Education Michael E. Auer, Hanno Hortsch, Panarit

Sethakul, 2020-03-17 This book gathers papers presented at the 22nd International Conference on Interactive Collaborative Learning ICL2019 which was held in Bangkok Thailand from 25 to 27 September 2019 Covering various fields of e learning and distance learning course and curriculum development knowledge management and learning real world learning experiences evaluation and outcomes assessment computer aided language learning vocational education development and technical teacher training the contributions focus on innovative ways in which higher education can respond to the real world challenges related to the current transformation in the development of education Since it was established in 1998 the ICL conference has been devoted to new approaches in learning with a focus on collaborative learning Today it is a forum for sharing trends and research findings as well as presenting practical experiences in learning and engineering pedagogy The book appeals to policymakers academics educators researchers in pedagogy and learning theory school teachers and other professionals in the learning industry and further and continuing education

**Electrical & Electronics Abstracts**, 1997

*Power Electronics and Renewable Energy Systems* C. Kamalakannan, L. Padma Suresh, Subhransu Sekhar Dash, Bijaya Ketan Panigrahi, 2014-11-19 The book is a collection of high quality peer reviewed research papers presented in the Proceedings of International Conference on Power Electronics and Renewable Energy Systems ICPERES 2014 held at

Rajalakshmi Engineering College Chennai India These research papers provide the latest developments in the broad area of Power Electronics and Renewable Energy The book discusses wide variety of industrial engineering and scientific applications of the emerging techniques It presents invited papers from the inventors originators of new applications and advanced technologies

**The Journal of Nutrition**, 1967 Vols 7 42 include the Proceedings of the annual meeting of the American Institute of Nutrition 1st 9th 11th 14th 1934 1942 1947 1950 1st 8th 1934 1941 issued as supplements to the journal

**Microcontroller-based Fuzzy Logic Speed Controller for Three-phase Induction Motor** Marwan A. A. Badran, 2013 Three phase induction motors have been used in a wide range of industry applications since they are robust brushless and have simple design Furthermore the speed of induction motor can be easily controlled by variable frequency drives The continuous development in power electronics semiconductors came out with modern electric drives These drives use high speed power transistors like IGBT and MOSFET with various switching techniques The speed control of induction motor is important to achieve maximum torque and efficiency In the past decades conventional control systems such as proportional integral derivative PID controller were applied to electric drives to control the speed of induction motor The PID controller is not a well established control method in motor drive because of the nonlinearity of induction motor On the other hand the use of Fuzzy Logic Controller FLC improves the performance of the speed control of induction motor In this research a microcontroller based fuzzy logic controller was developed The FLC replaces the conventional PI controller to improve the speed response of the drive in order to keep the speed of the induction motor constant when the load varies within the operating range The research also included the design and implementation of a three phase voltage source inverter VSI driven by Space Vector Pulse Width Modulation SVPWM signal The control system in this research was designed using Matlab Simulink environment The simulation included a comparison of speed response of FLC and PI controller The input to FLC is the linguistic variable of speed error and change of speed error while the output of FLC is the frequency fed to the inverter The three phase inverter was fabricated using MOSFET Hex bridge connected to a low pass LC filter to smooth the inverter output voltage wave In order to apply FLC and generate corresponding SVPWM signals a PIC16F877A microcontroller was used in the control system The speed controller was tested using various values of input speed using simulation and experiments The results showed the superiority of the proposed FLC over the conventional PI controller in the dynamics response of speed The results also showed the ability of the proposed to generate a three phase sine wave with desired frequency to control the speed of the induction motor with THD less than 5%

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