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 Jumlah Penulis : 3 orang (**Jaka Windarta**, Tejo Sukmadi, Maulinda Setiawan)
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Reviewer 2



Mochammad Facta, S.T., M.T., Ph.D.
 NIP. 197106161999031003
 Unit : Teknik Elektro FT UNDIP

Reviewer 1



Dr. Wahyudi, ST, MT
 NIP. 196906121994031001
 Unit : Teknik Elektro FT UNDIP

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- Kelengkapan unsur dan kualitas terbitan:**
Kualitas terbitan kurang baik, banyak gambar yang tidak disitasi pada naskah, kesalahan penulisan (missal gambar 2 tidak ada, pada hasil (hasil penulisan decimal tidak ada titik, ada kesalahan sitasi tabel seperti tabel 4.

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Reviewer 1



Dr. Wahyudi, ST, MT
 NIP. 196906121994031001
 Unit : Teknik Elektro FT UNDIP

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Reviewer 2



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Aplication Of Buck Converter On Three Phase Induction Motor dynamic Braking Using Dc Inject Method

J Windarta, T Sukmadi, M Setiawan - International Journal Of ..., 2017 - academia.edu

Three phase induction motors in various industries are very important to be stopped within a short time. Dynamic braking of three phase induction motor has been commonly used to break an induction motor electrically. However, dynamic braking method does not stop the rotation of the motor as quick as mechanical braking. In this research, will discuss about dynamic braking using direct current method. Buck Converter design is made as DC source for direct current braking in three phase induction motors. Based on the result of ...

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01	A REVIEW OF SOIL STABILIZATION USING POLYPROPYLENE AND WHEAT HUSK FIBER Authors: HIMANSHU GUPTA,MANOJ SHARMA, ASHUTOSH S. TRIVEDI DOI: 10.26562/IJIRAE.2017.NVAE10081	NVAE10081
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03	THE PRODUCT DESIGN OF WATER BOTTLED FOR ADULTS ACCORDING TO CUSTOMER NEEDS USING QUALITY FUNCTION DEPLOYMENT (QFD) METHOD Authors:Hasan Mastriswadi , Amalia DOI: 10.26562/IJIRAE.2017.NVAE10084	NVAE10084
04	MONITORING FOR VEHICLE VELOCITY AND ACCELERATION USING AN ACCELEROMETER Authors: Catur Edi Widodo,Kusworo Adi DOI: 10.26562/IJIRAE.2017.NVAE10086	NVAE10086
05	DISTANCE MEASUREMENT WITH A STEREO CAMERA Authors: Kusworo Adi , Catur Edi Widodo DOI: 10.26562/IJIRAE.2017.NVAE10087	NVAE10087
06	THE ROLE OF HIGH ORDER TERMS IN LANDAU THEORY TOWARD LANDAU-KHALATNIKOV EQUATION OF MOTION Author: Vincensius Gunawan DOI: 10.26562/IJIRAE.2017.NVAE10088	NVAE10088
07	APPLICATION OF BUCK CONVERTER ON THREE PHASE INDUCTION MOTOR DYNAMIC BRAKING USING DC INJECT METHOD Authors: Jaka Windarta ,Tejo Sukmadi , Maulinda Setiawan DOI: 10.26562/IJIRAE.2017.NVAE10089	NVAE10089
08	ANALYSIS OF SOLAR POWERED SELF BALANCING VEHICLE Authors: Prof. Chetan V. Papade, Akshay R. Hiremath DOI: 10.26562/IJIRAE.2017.NVAE10090	NVAE10090
09	PUBLIC SECTOR INFORMATION SYSTEMS PERFORMANCE IMPROVEMENT AND OPTIMIZATION USING SQL (Structured Query Language) QUERY TUNING Author:Ravishankar Belkunde DOI: 10.26562/IJIRAE.2017.NVAE10091	NVAE10091

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APPLICATION OF BUCK CONVERTER ON THREE PHASE INDUCTION MOTOR DYNAMIC BRAKING USING DC INJECT METHOD

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Abstract— Three phase induction motors in various industries are very important to be stopped within a short time. Dynamic braking of three phase induction motor has been commonly used to break an induction motor electrically. However, dynamic braking method does not stop the rotation of the motor as quick as mechanical braking. In this research, will discuss about dynamic braking using direct current method. Buck Converter design is made as DC source for direct current braking in three phase induction motors. Based on the result of measurement, buck converter can operate on minimum duty cycle 10% with output voltage 11,3V and output current 0,16A. When duty cycle operates at maximum duty cycle 90%, output voltage is 29,95V and output current is 1,15A. The test results also prove that the buck converter was successfully applied to direct current braking of the three phase induction motor and has succeeded in stopping the motor fastest in 0.18 seconds when the motor are not coupled with DC generator and 1.7 seconds for the condition is coupled with the DC generator.

Keywords— 3-ph induction motor, buck converter, direct current braking

I. INTRODUCTION

Three-phase induction motors are commonly used in various industries because of their simple construction, easy use, high durability, high reliability, and low maintenance costs. One of the important control parameter of induction motor is braking. Braking is needed when a system requires in stop process, either when the device operation is completed or when there is a system error to secure the equipment at work. One method of three phase induction motor braking is dynamic breaking method by injecting direct current on the stator coil of three phase induction motors after the stator coil is removed from the supply.



ANALYSIS OF SOLAR POWERED SELF BALANCING VEHICLE

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Abstract— The solar powered self-balancing vehicle is a two wheeled vehicle which uses solar energy stored in battery to run its motor and attain acceleration. It is convenient form of transport without consuming fuels. Self-balancing vehicle is a two wheeled vehicle which balances itself in air vertically with reference to the ground. This vehicle is designed to mirror the process of walking and can be used for inspection purpose in the malls and offices. With solar energy as source of energy self-balancing vehicle technology and related uses of non-motorized transportations, a long term solution is to establish dedicated on-motorized lanes in urban environment, which will promote more energy efficient and environment friendly travel means. In this research solar energy is used as a source of fuel. A D.C motor is driven by solar energy. Solar energy is a natural resource available free of cost and in adequate quantity. The balancing of vehicle is achieved by the weight balance on the platform plate at the static condition and the action of inertia forces in the dynamic state. This vehicle is capable of moving with the speed of 30 Km/hr.

Keywords— Self-balancing; solar panel; solar energy; motor controller; throttle;

I. INTRODUCTION

In this research, the solar energy is used to run self-balancing vehicle by help of various electric components. Self-balancing vehicle is the vehicle which balances itself in air with reference to the ground. Self-balancing is achieved by using mechanical components. In Solapur region the intensity of sunlight is 1013*100 lux. The main objective of "Solar powered self-balancing vehicle" is to reduce the cost and make it high efficient for the use of human being with help of solar energy. To prepare a self-balancing vehicle without using complex and electronics parts such as microcontroller, gyro sensors, etc. For the better performance of the vehicle we need batteries which are charge by solar panels and solar station. Also the vehicle is designed for the inspection and security purpose. The indoor applications of the vehicle is rarely visible to us. Nowadays the individual shopping markets are closing drastically and the concept of big shopping malls is increasing in metro as well as in small cities. So it's crating the problem of walking from small children to the senior citizens. Hence to reduce the human effort and to making the mirror of walking process the idea of self-balancing vehicle with help of solar energy came into the picture.



PUBLIC SECTOR INFORMATION SYSTEMS PERFORMANCE IMPROVEMENT AND OPTIMIZATION USING SQL (Structured Query Language) QUERY TUNING

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Abstract: In Public Sector Information Systems data is more valuable than actual cost of software and hardware. These systems use Relational Database Management Systems (RDBMS). The Relational Database Management Systems are developed to securely store data and allow most efficient data processing and retrieval. To retrieve and process data stored in RDBMS, Structured Query Language (SQL) is used. The major performance bottleneck in Public Sector Information Systems is due to delay in data processing, data storage and data retrieval. Database Administrators use different combinations of methods to tackle these bottlenecks. Here we will discuss one of the most powerful and extensively effective performances tuning technique of SQL query optimization.

Keywords: SQL Tuning, Database performance, Tuning, Public Sector Systems, Database Optimization

I. INTRODUCTION

The Public Sector Information Systems extensively use database management system in the backend to store the data. Performance tuning in database management system means enhancing the performance of database, i.e., minimizing the response time at a very optimum cost. As query response time is the no. one metrics when it comes to database performance, query optimization is one of the important aspects of performance tuning [1]. The objective of query optimization is to provide minimum response time and maximum throughput with the efficient use of resources. Query optimization primarily means selection, followed by sequencing in specific order, of the different SQL clauses to formulate an efficient query from the multiple query plans by drawing a comparison of the query plans based on the cost of the resources involved and the response time [1]. As RDBMS use SQL query for most of data processing operations SQL tuning is believed to have the largest impact on performance (more than 50%). SQL is a declarative language which only requires the user to specify what data is wanted. There might be hundreds or thousands of different ways to correctly process the query. Hence, it's very hard for the DBMS query optimizer to decide which access path should be used [2]. This paper provides the SQL tuning techniques and real time comparison of queries which produce same result but with different execution time.