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#### **The Review of Nonlinear Dynamic Characteristics of Rolling Bearing Performances Based on Poor Information theory**

Xin Tao XIA, Yuan Yuan QIN, Ming QIU

*Department of Mechanical Engineering, Shanghai Jiao Tong University, China*

*Keywords: Information-poor theory; Uncertainty; Function polytrope; Chaos; Nonlinear dynamics*

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2.

#### **The Advances of the Prediction of the Performance and Reliability of Rolling Bearings with Poor Information**

Xintao Xia, Yanyan Meng, Ming Qiu

*Department of Mechanical Engineering, Xi'an Jiaotong University, China*

*Keywords: rolling bearing, performance, reliability, poor information.*

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#### **SYNTHESIS AND CHARACTERIZATION OF Ni-NPs.**

M. Hemalatha, N. Suriyanarayanan, S. Prabahar

*Department of Chemistry, Anna University, India*

*Keywords: Nanoparticles; Structural; Magnetic materials; Nickel; Synthesis.*

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Sezgin Ersoy, Yalçın Boztoprak

*Department of Materials Science, Istanbul Technical University, Turkey*

*Keywords: sound absorption, impedance ratio, HDPE-SIS blends*

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Mohd. Junaid Siddiqui, Rajan Arora, V.P. Singh

*Department of Physics, Indian Institute of Technology, Delhi, India*

*Keywords: Shock Waves, Far Field Behavior, Burger's equation.*

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Andrew Patel, Nicholas Santos

*Department of Mechanical Engineering, Lund University, Sweden*

*Keywords: Vibration, operator, handle, seat, power tiller, 1/3rd octave, and exposure limits*

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Steven Kumar, Joshua Costa, Maria Schmidt

*Department of Mathematics, University of São Paulo, Brazil*

*Keywords: Travelling wave solutions; Hyperbolic functions; Trigonometric functions; Fractional sub-equation method; Fractional Generalized Kuramoto-Sivashinsky equation.*

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S.Govindasamy  
Assistant professor  
Paavai Coll of  
Engg,Namakkal  
n.C.Manoharan  
nPrincipal  
nAMS Engineering Coll, Namakkal.

*Department of Electrical Engineering, Paavai College of Engineering, India*

*Keywords: SRM, PID, Genetic Algorithm, Fitness Function, SIMULINK*

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## **DESIGN AND ANALYSIS OF BUCK/BOOST CONVERTER WITH QZSI FOR WIND ENERGY CONVERSION SYSTEM**

I. GNANAMBAL\nAssociate Professor, Department of Electrical and Electronics Engineering, Govt. College of Engineering, Salem – 636 011, Tamil Nadu, India.\nG.BALAJI\nAssistant Professor, Department of Electrical and Electronics Engineering, Paavai\n  
*Department of Electrical and Electronics Engineering, Government College of Engineering, Salem, Tamil Nadu, India*

*Keywords: Wind Turbine, PMSG, Buck-Boost Convertor, Quasi Z Source Inverter, and PID Controller*

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K.Arutselvan\n Assistant Professor/EEE, Paavai College of Engineering\nProf.Dr.C.Manoharan,\n Principal, Archana Institute of Technology  
*Department of Electrical and Electronics Engineering, Paavai College of Engineering, Tamil Nadu, India*

*Keywords: Interleaved Converter, Series motor.*

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### **Estimation of Software Quality Parameters using Combination of Quality Function Deployment and Messy Genetic Algorithm**

Manuj Darbari, Himanshu Pandey  
*Department of Computer Science, Indian Institute of Technology, Kanpur, India*

*Keywords: Software Quality Parameters, QFD, Messy Genetic Algorithm.*

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### **Evaluating Mechanical Properties of Nanoplatelet Reinforced Composites under Mechanical and Thermal Loads**

Anna Mueller, Laura Fischer  
*Department of Mechanical Engineering, Charles University, Czech Republic*

*Keywords: Analytical modeling, Nanoplatelet reinforced composites, Stress transfer, Elastic modulus*

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Sofia Weber, Elena Becker  
*Department of Biotechnology, Sapienza University of Rome, Italy*

*Keywords: Rhodococcus Erythropolis IGTS8; Dibenzothiophene; Biodesulfurization; Mesoporous Silica*

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**The Impact of Mobile Phone on the Performance of University Students**

Jangraiz Khan, Suleman Amin

*Department of Psychology, University of Peshawar, Peshawar, Pakistan*

*Keywords: Mobile Phones, University Students, SMS, University of Peshawar, Odds Ratio*

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**Open Book Exams in Higher Education: A Systematic Review of Effectiveness, Challenges, and Implications**

A.V. Shunko, D.Azerbayev, Z. Mukhambet, D.Sinkov

*Academy of physical education and mass sports, Astana, Kazakhstan; Kazakh-Russian Medical University, Almaty, Kazakhstan*

*Keywords: examination, higher education, open-book, exam, pedagogy, testing.*

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