

Title Index (2005)

A comparative study of fuzzy and neural network approaches to discriminant analysis with linguistic variables by <i>Chandan Chakraborty and Debjani Chakraborty</i>	265
A dynamic bandwidth allocation scheme for VSAT-based networks by <i>S. S. Manvi, Anees Flexwala and Abhinav Singh</i>	183
A heuristic complex probabilistic neural network system for partial discharge pattern classification by <i>B. Karthikeyan, S. Gopal and S. Venkatesh</i>	279
A parallel algorithm for the inhomogeneous heat equations by <i>M. Akram</i>	253
A simple alias-free QMF system with near-perfect reconstruction by <i>Alok Jain, Rajiv Saxena and S. C. Saxena</i>	1
A tracing method for parametric Bézier triangular surface/plane intersection over triangular domain by <i>R. Sharma and O. P. Sha</i>	161
Automated condition assessment of buried sewer pipes based on digital imaging techniques by <i>Shivprakash Iyer and Sunil K. Sinha</i>	235
Buoyancy-driven convection in liquid metals subjected to transverse magnetic fields by <i>V. Mittal, M. F. Baig and B. Kant Khan</i>	119
Centralized PI/PID controllers for nonsquare systems with RHP zeros by <i>K. L. N. Sarma and M. Chidambaram</i>	201
Conformational effects and level mixing in a doubly hydrogen-bonded 1 : 1 dimer of acetic acid and 3-fluorobenzoic acid by <i>Chayan K. Nandi and Tapas Chakraborty</i>	000
Conformations of triethylphosphate: A reanalysis of the matrix isolation spectra by <i>K. Sankaran, V. Venkatesan, K. Sundararajan and K. S. Viswanathan</i>	000
Development of a globally competitive electric vehicle in India by <i>Chetan Kumar Maini</i>	83

- Electrical properties of ion beam mixed Ti silicide at metal/Si interface
by *Veenu Sisodia, D. Kabiraj and I. P. Jain* 151
- Experimental study of drivetrain configurations in fuel cell city bus
by *Chen Yong, Qiu Bin, Han Xiaodong and Chen Quanshi* 97
- Fractional Fourier transform: A novel tool for signal processing
by *Rajiv Saxena and Kulbir Singh* 11
- Fuelling future cars
by *A. K. Shukla* 51
- Improved current gain at high collector current densities for SiGe heterostructure transistors
by *G. M. Khanduri and B. S. Panwar* 131
- Laser ablation-inductively coupled plasma mass spectrometry for 2D mapping of trace elements in soft tissues
by *N. Chandra Sekaran* 223
- Low-pollution three-wheeler autorickshaw with power-assist series hybrid and novel variable DC-link voltage system
by *Andrea Vezzini, Hari Sharan and Loganathan Umanand* 105
- Magnetic circular dichroism of the mercapto radical in noble-gas matrices
by *Jeremy J. Harrison and Bryce E. Williamson* 000
- Molecular dynamics simulations of matrix trapped molecules
by *Y. Haas and D. Schweke* 000
- On the stability of solutions of a certain system of second-order differential equation
by *Debasish Sengupta* 39
- Optimal beamforming for Rayleigh-faded time-frequency varying channels using fractional Fourier transform
by *Rajesh Khanna, Rajiv Saxena And Kulbir Singh* 27
- Performance evaluation of solar absorption cooling system of Bahal (Haryana)
by *V. Mittal, K. S. Kasana and N. S. Thakur* 295
- Pulsed nozzle Fourier transform microwave spectroscopic and *ab initio* investigations on the weakly bound Ar-(H₂S)₂ trimer
by *Pankaj K. Mandal, Mausumi Goswami and E. Arunan* 000

- Recovery and reuse of water from effluents of cooling tower
by *S. Kaliappan, C. Sathish and T. Nirmalkumar* 215
- Scaling characteristics of f_{NQS} and f_i in NMOSFETs with and without supply voltage scaling
by *R. Srinivasan and Navakanta Bhat* 195
- Thermodynamics and solution chemistry of struvite
by *Md Imtiaz Ali, Philip A. Schneider and Neale Hudson* 141
- Uniqueness of limit cycles in a generalized Liénard system
by *Xuncheng Huang and Lemin Zhu* 307
- Usability heuristics and their role in designing vehicles—A case study of an electric-hybrid vehicle body design
by *Pradeep Yammiyavar* 67
- Zero kinetic energy photoelectron spectroscopic investigations of hydroquinone isomers
by *S. Chakraborty, N. Biswas and S. Wategaonkar* 000