

Siksha 'O' Anusandhan University Institute of Technical Education & Research

Publication by Faculty Members

APPLIED ELECTRONICS & INSTRUMENTATIONS

International

Journals:

- I. **N.Bhoi**, S. Meher, "Circular Spatial Filtering under High Noise Variance Conditions," *Computers & Graphics*, Elsevier ,vol. 32, issue 5, October 2008, pp. 568-580.
- II. **N.Bhoi**, S. Meher, "A new efficient approach for the removal of Gaussian noise from highly corrupted images," submitted to *International Journal of Image and Graphics*, World Scientific.
- III. **N. Bhoi**, S. Meher, "A New Hybrid Filter in Wavelet Domain for Moderately Corrupted Images," submitted to *ETRI* Journal.
- IV. **N. Bhoi**, S. Meher, "A qualitative White Noise Removal Scheme relying on Adaptive Gaussian Filter in DCT Domain", revised and submitted to *Journal of Graphics Vision and Image Processing (GVIP)*, International congress for global science and technology (ICGST).
- V. **N. Bhoi**, S. Meher, "Edge Preserving Adaptive Window Wiener Filter for Image Denoising," submitted to *International Journal of Computers, Communications & Control (IJCCC)*.

Conferences:

- I. M.R.Meher, S.Meher, **N.Bhoi**, "A Low complexity Image Denoising Scheme Using Adaptive Gaussian Smoothing in DCT Domain", Accepted for presentation in *IEEE International Conference ICIS 2006*, SriLanka.
- II. **N.Bhoi**, S. Meher, "Total Variation based Wavelet Domain Filter for Image Denoising," *IEEE International Conference on Emerging Trends in Engineering & Technology, ICETET-2008*, pp. 20- 25.

National

Conferences:

- I. M.R. Meher, S.Meher, **N Bhoi** "A Novel Method of Impulsive Noise Detection and Removal using DCT, *Proceedings of National Conference on Soft Computing for Engineering Applications SCT-2006* , NIT, Rourkela.

- II. **N.Bhoi**, S.Meher, “Effect of DCT and Local Filters of B-Spline Wavelets on Image Denoising”, *Proc. National Conference on Digital Information Management NCDIM’07*, Mumbai.
- III. **N.Bhoi**, S.Meher, “A Novel Hybrid Filter for Suppression of Mixed Noise”, *Proc. National Conference on Trends in Computing-2007, NCTC-07*, Punjab.
- IV. **N.Bhoi**, S.Meher, “Image Denoising using Maximum Likelihood Estimate in Wavelet Domain”, *Proc. National Conference on Embedded Computing Control & Communication 2007, NECECube 07*, Pune.
- V. **N.Bhoi**, S. Meher, “Wavelet Based Image Denoising with Region Merging Approach”, *Proc. National Conference on Signal Processing and Automation, NCSPA 2007*, Pune.

CIVIL ENGINEERING

a) Journals

Dr. Joygopal Jena, Professor & Head

1. G.C. Sahu, C.V. Prasad, **J.G. Jena**, G.P. Ray, and A. K. Das, (2005) “Derivation of an Equation for Estimation of Design Flood for Water Resources Project in Baitarani Basin (Orissa)” 46th Technical Annual, Institution of Engineers(India), Orissa Chapter, Bhubaneswar. (**Awarded with “Er. Gobinda Chandra Sahoo Award”**) Pp.115-121
2. G.C. Sahu, C.V. Prasad, **J.G. Jena**, and A. K. Das. (2006) “Estimation of Design Flood for Water Resources Projects of Un-gauged Catchments in Rushikulya Basin (Orissa)” Institution of Engineers(India), Orissa Chapter. (**Awarded with “Institution Gold Medal”**) Pp.224-229.
3. **Joygopal Jena**, (2006). “Optimal Distribution of Water through Irrigation Canal Network with Minimum Water Loss Consideration”. Institution of Engineers (India), Orissa Chapter.
4. **Joygopal Jena** (2006). “Dependability and Reliability considerations for Water Resources Projects”. Techno Voice. Journal of Association of Engineers. Bhubaneswar. Orissa. Pp. 55-58
5. Susil Kumar Kar and **Joygopal Jena** (2007) “ Use of Fly ash in Concrete” Vertex, Journal of Orissa engineers forum, Cuttack Pp.28-31
6. **Joygopal Jena**, (2008). “Himalayan Component of ILR- Mighty Bramhaputra and its China Factor”. 49th Technical Annual, Institution of Engineers (India), Orissa Chapter, Bhubaneswar. January, 2008
7. G.C.Sahu and **Joygopal Jena**, (2008) “Meeting Municipal & Industrial Water Demand from Hirakud Dam Project – An Analysis” , 49th Technical Annual, Institution of Engineers (India), Orissa Chapter, Bhubaneswar, Nov (**Awarded with “Institution Gold Medal”**)
8. G.C.Sahu and **Joygopal Jena**, (2008) “Efficient Water Management through Use of Other Infrastructures”, 49th Technical Annual, Institution of Engineers (India), Orissa Chapter, Bhubaneswar, Nov

Dr. Sudhanshu Sekhar Das, Assistant Professor

1. Das, S. S., Maitra, B. and Boltze, M. (2007) ‘Valuing Attributes of Rural Feeder Service to Bus Stop’ Indian Highway, IRC, May, pp. 9-16.
2. Das, S. S. and Maitra, B. (2007) ‘A Covariance Heterogeneity Nested Logit Model for Choice of Rural Feeder Service to Bus Stop’ Indian Highway, IRC, December, pp. 31-39.

Accepted

Das, S. S, Maitra, B. and Manfred Boltze ‘Valuing Travel Attributes of Rural Feeder Service to Bus Stop: a Comparison of Different Logit Model Specifications.’ acceptance in Journal of Transportation Engineering, ASCE to be published on June 2009 volume.

Communicated

Das, S. S and Maitra, B. ‘Planning of Rural Feeder Service to Bus Stop.’ communicated to ASCE in the year 2009.

ELECTRONICS AND COMMUNICATION ENGINEERING

Ms. Niva Das

1. “ICA methods for Blind Source Separation of Instantaneous Mixtures: A case study,” Niva Das, Aurobinda Routray and P. K. Dash, Neural Information Processing-Letters and Reviews, vol. 11, No. 11,
2. “A robust H-infinity learning approach to blind separation of slowly time varying mixture of acoustic electromechanical signals,” Niva Das, Aurobinda Routray, P.K. Dash, Mechanical Systems and signal processing (accepted for publication)

Mr. Sudhir Kumar Routray

1. I was one of the “IEEE history paper contest” winners for the paper “History of Electronics” in 2004 in the IEEE History Conference at Bletchly Park, UK.
2. “Intelligent Recognition Systems: A Secondary Approach”, Proceedings of the National Conference on Intelligent Systems, in Jan 2007, at IACR, Rayagada, India.
3. “Multiple Biometrics: A Better Solution for Person Recognition”, Proceedings of the National Conference on Communication (NC-VCom), in Feb 2007 at Saintgits Engineering College, Kottayam, Kerala, India.

Mr. Kaushik Nayak

1. Patterned Microfluidic Channels using Self- assembled Hydroxy-phenyl Porphyrin Monolayer, K. Nayak, Prasanna D. Kulkarni, Deepu A., V. R. Sitaraman, S. Punidha, A.A. Saha, M. Ravikanth, Sushanta K. Mitra, S. Mukherji, V. Ramgopal Rao, *Senior Member, IEEE*, 7th International Conference on Nanotechnology, Hong Kong

ELECTRICAL ENGINEERING

MR. SANJEEB KU. KAR

“Comments on Optimal Control via Fourier Series of Operational Matrix of Integration” , B.M. Mohan & **S.K. Kar**. IEEE Transaction on Automatic Control, Sept’05, Vol. 50, No.-9, Page-1466-1467

Mr. Ranjan Kumar Mallick

“Design of Fuzzy Controlled UPFC for improving Transient Stability Performance of Power System” **R.K. Mallick** & S. Mishra, Energy Automation and Information Technology, IIT, Kharagpur.

DEPARTMENT OF MATHEMATICS

Prof. Dr. J.C.Misra

1. J. C. Misra and G. C. Shit, Biomagnetic channel Flow of Viscoelastic fluid, accepted for publication in JOURNAL OF APPLIED MECHANICS (ASME) – In press.
2. J. C. Misra and G. C. Shit (2009): Biomagnetic viscoelastic fluid flow over a stretching sheet, Accepted for publication in Journal of Applied Mathematics and Computation, Vol. 210, No. 2, 350-361.
3. J. C. Misra, G. C. Shit and H. J. Rath (2008): Flow and Heat Transfer of a MHD Viscoelastic Fluid in a Channel with Stretching Walls: Some Applications to Haemodynamics, COMPUTERS & FLUIDS (U.S.A), Vol. 37, No. 1, 1-11.
4. J.C.Misra, S. Maiti, G.C.Shit(2008), Peristaltic Transport of a Physiological Fluid in an Asymmetric Porous Channel in the Presence of an External Magnetic Field, JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY, Vol. 8 , No. 4, 507-525.
5. J. C. Misra, S. D. Adhikary and G. C. Shit (2008), Mathematical Analysis of Blood Flow Through an Arterial Segment with Time Dependent Stenosis, Mathematical Modelling and Analysis(MMA) Vol .13, No.3, 401-412.
6. J. C. Misra , A. Sinha and G. C. Shit(2008): Theoretical Analysis of Blood Flow Through an Arterial Segment Having Multiple Stenoses, JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY, Vol. 8 , No. 2, 265-279.
7. J. C. Misra and A. Mitra (2008), Synchronization among tumor-like cell aggregations coupled by quorum sensing: A theoretical study, Computers and Mathematics with Applications (USA), Vol. 55, Issue 8, 1842-1853.
8. J. C. Misra, S. D. Adhikary and G. C. Shit (2007), Multiphase Flow of Blood through Arteries with a Branch Capillary: A Theoretical Study, Journal of Mechanics in Medicine and Biology, Vol. 7, No. 4, 395-417.
9. J. C. Misra and G. C. Shit (2007): Effect of Magnetic Field on Blood Flow through an Artery: A Numerical Model, Journal of Computational Technologies (Russia), Vol. 12, No. 4, 3-16.

10. J. C. Misra and M. K. Patra (2007): A study of solitary waves in a tapered aorta by using the theory of solitons, Computers and Mathematics with applications (USA), Vol. 54, 242-254.
11. J. C. Misra and G. C. Shit (2007): Role of Slip-Velocity in Blood Flow through Stenosed Arteries: A Non-Newtonian Model, Journal of Mechanics in Medicine and Biology, Vol. 7, No. 3, 337-353.
12. J. C. Misra and A. Mitra (2006) : Instabilities in Single-Species and Host-Parasite Systems: Period-Doubling Bifurcations and Chaos, Computers and Mathematics with Applications (USA). Vol. 52, 525-538.
13. J. C. Misra and G. C. Shit (2006): Blood Flow Through Arteries in a Pathological State: A Theoretical Study, International journal of Engineering science (u.k). Vol. 44, 662-671.
14. J.C.Misra and B. Dravid (2006): A Mathematical Model in the Study of Genes for Identifying Transcription Factor Binding Sites, Computers and Mathematics with Applications (USA), Vol. 51, 621-630.
15. J. C. Misra, S. D. Adhikary, Flow of a Bingham Fluid in a Porous Bed under the action of a Magnetic Field: Some Physiological Applications, Communicated for Publication Applied Mathematics and Computation(2009).
16. S. D. Adhikary, J. C. Misra, Mathematical Modelling of the Hemodynamical Flow of Blood Through Arteries in a Vibration Environment, Communicated for Publication in Biorheology (2009).
17. S. D. Adhikary and J. C. Misra, Flow and Heat Transfer for the Hydromagnetic Flow of a Fluid through an Oscillating Porous Channel- Some Physiological Applications Communicated for Publication in Heat and Mass Transfer(2009).
18. S. Dantapat, S. D. Adhikary and J. C. Misra, A Mathematical Model for Studying Unsteady Flows in Blood Vessels, Communicated for Publication in International journal of Biomathematics (2009).
19. S. Dantapat, S. D. Adhikary and J. C. Misra, A Mathematical Model on Vibration of Human Head communicated for Publication in Computers and Mathematics with Applications (2009).

Conferences:

1. S. D. Adhikary and J. C. Misra, Fluctuating Flow of a Couple Stress Fluid in a Porous Channel Accepted for publication in Proc. of Ninth International Conference of Vibration Problems (ICoVP) held at IIT, kharagpur from 19th-22nd January 2009.
2. S. D. Adhikary and J. C. Misra, Mathematical Modelling of Multiphase Flow of Blood Through Arteries With a Branch Capillary, presented at the Seminar on Emerging Trends in Computational and Applied Mathematics held at the Department of Applied Mathematics, Vidyasagar University during 31st January and 1st February, 2007

3. S. D. Adhikary and J. C. Misra, Non-Newtonian Blood Flow Through an Arterial Segment having a Time-Dependent Stenosis presented at the National Seminar on Applied and Computational Mathematics and their Applications held at Vidyasagar University during 6th and 7th March 2008.

Prof (Dr.) G.C.Dash

1. G.C.Dash, P.Ratha & B.Panda- Flow and Heat Transfer of an Electrically conducting Visco-Elastic fluid between two horizontal squeezing / Stretching plate in the presence of cross flow (AMSE Vol-76, No.4) Page-50, 2007
2. S.Dash, G.C.Dash & D.P.Mishra- MHD flow through a porous medium past a stretched vertical plate permeable surface in the presence of heat source/ sink and chemical reaction. (Proc.nat.Acad.Sc. Part-1 Vol-78) Page-49, 2008.
3. G.C.Dash , P.Ratha & (72) N.Mohapatra- Effect of Hall current in MHD flow along an exponentially accelerated porous flat plate with internal heat absorption/ generation and mass transfer(AMSE France 2008.)
4. G.C.Dash, P.K.Ratha & N.Mohapatra-Unsteady free convection MHD flow and mass transfer through porous media of a second order fluid between two heated plates with source/ sink (Accepted for publication in National Science academy, 2009)

Communicated for Publication:

1. P.k.Ratha & G.C.Dash-Effect Hall Current on MHD flow along an exponentially accelerated porous flat plate with internal heat absorption / generation and mass transfer (AMSE France.)
2. P.k.Ratha & G.C.Dash-MHD flow and heat transfer of visco-elastic fluid between two horizontal stretching plates in the presence of cross flow and porous medium (AMSE France.)
3. P.k.Ratha & G.C.Dash-Unsteady free convective MHD flow and mass transfer through porous media in a rotating system.(National Academy Sciences India)
4. P.k.Ratha & G.C.Dash-Effect Hall Current and chemical reaction on MHD flow along an exponentially accelerated porous flat plate with internal heat absorption / generation. (National Academy Sciences India.)
5. P.k.Ratha, G.C.Dash & A.Patra -Free convective MHD flow through porous media of a rotating visco-elastic fluid past an infinite vertical porous plate with heat and mass transfer in the presence of chemical reaction. (AMSE France.)

Prof.Milu Acharya

- 1) Approximate Evaluation of Integrals of analytic Functions by M.Acharya, B.P.Acharya & M.M.Nayak the FACTA UNIVERSITATIS (NIS), Ser, Math inform, Vol-23, 2008, 63-68.
- 2) Numerical Evaluation of integrals of Analytic Functions by M.Acharya, B.P.Acharya & S.Pati. Accepted for publication in International Journal of Computer Mathematics, U.K. 2009.

- 3) Numerical Evaluation of Complex Cauchy Principal Integrals by M.Acharya&B.P.Acharya. Accepted for publication in South East Journal of Mathematics & Mathematical Sciences,2009
- 4) COMPUTER PROGRAM FOR IMPLEMENTING THE RULES FOR THE NUMERICAL APPROXIMATION OF COMPLEX MULTI-DIMENSIONAL INTEGRAL by M. ACHARYA, B. P. ACHARYA and N. K. ACHARYA published in Research Net Work,June,2009,S'O'A
- 5) Production Strategy for nutritional need of Khandamal district of Orissa by D. Panigrahi, M.Acharya & P.C. Senapati Jr of Research, OUAT, 24,(182)43-48,2006.
- 6) Climatic Suitability of growing food crops in the Khandamal district of Orissa by D.Panigrahi, M.Acharya & P.C. Senapati Jr of Indian Water Resources Society, IIT, Roorkee, Vol-27, No-21, 35-42, 2007.
- 7) Pre-requisites for sustainable organic farming in Khandamal Plateaus of Orissa by D.Panigrahi,M.Acharya & P.C. Senapati Vikash Vani Journal,Vol-II,No-1,14-22,2008.
- 8) Impact assessment of Variation in Meteorological Parameters orainfed,Agricultural Production & Productivity by D.Panigrahi,M.Acharya & P.C. Senapati Published in the Proceedings of 11th Orissa Bigyan Congress held at KIIT University,Dec23-24,2008.
- 9) Analysis of Gene Expression Data Clustering, Biclustering & Triclustering by D.Mishra, M.Acharya & A.Ratha Published in the proceedings of National Conference held at DAV College, Amritsar, 2009.
- 10) Findind overlapping Biclustres from Gene Expression Data Vol-IV, No.1, Mar-2009 The Research Network.
- 11) Food Sufficiency Analysis in Khandamal Plateaus of Orissa by P.K.Mohanty,D.Panigrahi &M.Acharya accepted for presentation in International Conference on food security & environmental sustainability to be held at Agricultural & Food engineering deptt,IIT,Kharagpur,Dec-2009.
- 12) Finding Coherent Bi-clusters from Microarray Data by Imitating the Ecosystem: Ant Colony Algorithmic Approach accepted for presentation in International Conference on artificial Intelligence (IICAI-09).

Dr.S.Chand.

N.Parhi, S.Chand, Ocillation of Solutions of Neutral Parabolic differential equations with oscillating coefficients. Math.Slovaca 58(2008), No.1, 77-94

Dr.J.K.Dash.

PAPERS PUBLISHED IN JOURNALS(6)

- [1.] J.K. Dash, G. Panda, S. Nanda. “ A New Solution Method for Fuzzy Chance Constrained Programming Problem”, Fuzzy **Optimization and Decision Making} volume 5(4) (Springer 2006), 355-370.**
- [2.] J. K. Dash, G. Panda, S. Nanda, “ Generalized Fuzzy Fractional 0-1 Programming”, **Journal of Fuzzy Mathematics, 14(3) (2006), 649-653.**
- [3.] J. K. Dash, G. Panda, S. Nanda, “ Generalized Fractional 0-1 Programming Problems with Fuzzy Parameter in the Objective Function”, **Journal of Fuzzy Mathematics, 15(4) (2007), 957-963.**
- [4.] J.K. Dash, G. Panda, S. Nanda, “Chance Constrained

- Programming with Fuzzy Inequality Constraints”, **Opsearch 45(1) (2008), 34-48.**
- [5.] J.K. Dash, G. Panda, S. Nanda, “A New Methodology for Crisp Equivalent of Fuzzy Chance Constrained Programming Problem”, **Fuzzy Optimization and Decision Making Volume 7 (2008), 59-74.**
- [6.] J. K. Dash, G. Panda, S. Nanda, “ Chance Constrained Programming Problem under Different Fuzzy Distributions”, **Accepted in 2008, International Journal of Optimization Theory Methods and Application.**
- [7.] Title of Ph.D. thesis of Dr. Mrs. M. Das, “Statistical Study of Women’s” issues in Orissa: Health, Labour & Education awarded Ph.D. in 2007.

DEPARTMENT OF PHYSICS

Dr. Biswajit Pradhan

1. Spectroscopic studies on methyl torsional behavior in 1-methyl-2(1H)-pyridone, 1-methyl-2(1H)-pyridinimine and 3-methyl pyridine. Excited state-I. R. K. Sinha, **B. Pradhan**, S. Wategaonkar, B. P. Singh, T. Kundu, **J. Chem. Phys. 126, 114312, 2007.**
2. Origin of methyl torsional barrier in 1-methyl-(1H)-pyridinimine and 3-methyl pyridine. Ground state-II. **B. Pradhan**, R. K. Sinha, B. P. Singh, T. Kundu. **J. Chem. Phys. 126, 114313, 2007.**
3. Origin of threefold symmetric torsional potential of methyl group in 4-methylstyrene, Rajeev K. Sinha, **B. Pradhan**, Bhanu P. Singh, and T. Kundu, Partha Biswas and T. Chakraborty, **J. Chem. Phys. 124, 144316, 2006.**

Mr. Kamal lochan Mohanta

1. Graphene: Carbon in two dimension. B. Pradhan and **K. L. Mohanta**, Orissa Physical Society, 41, 2008.
2. Application of nanotechnology in medical science. **K. L. Mohanta** and R. R. Mohanta, Orissa Physical Society, 31, 2009.

Dr. Piyush Ranjan Das

1. **Piyush R. Das**, B.K. Samantray and R. N. P. Choudhary: *Diffuse phase transition in $Na_2Pb_2R_2W_2Ti_4V_4O_{30}$ (R= Gd, Eu) ferroelectric ceramics*, **J. Phys. Chem. Solids**, 68 (2007) 516- 522.
2. **Piyush R. Das**, B.K. Samantray and R. N. P. Choudhary: *Diffuse ferroelectric phase transition in Piyush R. Das, L. Biswal, B. Behera and R.N.P. $Na_2Pb_2Sm_2W_2Ti_4Nb_4O_{30}$ ceramics*, Materials Chemistry and Physics, **101** (2007) 228-233..
3. **Piyush R. Das**, B.K. Samantray and R. N. P. Choudhary: *Diffuse ferroelectric phase transition in $Na_2Pb_2Nd_2W_2Ti_4Nb_4O_{30}$ ceramic*, Journal of Alloys and Compounds, 448 (2008) 32-37.
4. **Piyush R. Das**, **Banarji Behera**, B.K. Samantray and R. N. P. Choudhary: *Ferroelectric properties of $Na_2Pb_2R_2W_2Ti_4V_4O_{30}$ (R= Dy, Pr) ceramics*, **Res. Let. Mat. Sc** Vol 2007 Article Id- 91796.

Dr. Jyotirmayee Nanda (Dash)

1. **Jyotirmayee Nanda**, P. K. Mohapatra and C. L. Roy, “Transmission coefficient, resonant tunneling lifetime and transversal time in a multibarrier semiconductor heterostructure”, Physica B: Condensed Matter, 383 (2006) 232.
2. **Jyotirmayee Nanda**, P.K.Mahapatra and C.L.Roy, “surface states in semiconductor superlattices”, published in **AIP Proceedings 2008**, presented the paper in the International Workshop on Mesoscopic, Nanoscopic and Macroscopic Materials (**IWMNMM-2008**) held during 3-6 Jan 2008 at Bhubaneswar, Orissa.
3. L. Aditya, J. Nanada, L. Samajdar, N. Venkataramani, and Shiva Prasad, “Correlation of grain boundary nature with magnetization in RF-sputtered lithium-zinc ferrite thin films”. JMMM, 2009.

Dr. Sushanta Kumar Kamilla

1. “Effect of Ni concentrations on the microhardness of GaNiSb ternary alloys” **S.K.Kamilla**, B.K.Samataray, S.Basu, *Journal of Alloys and Compounds*, Vol-414 April 2006 pp.235-239
2. “Hetro-molecular association in binary mixtures of solvent extractants and diluents at temperature 303.15K” Susmita Kamila, **Sushanta Kumar Kamilla** and Bipin Bihari Swain. *Physics and Chemistry of Liquids*, Vol-45, No-3, June 2007,pp-323-330
3. “A physicochemical study of binary mixtures of commercial solvent extractant, Alamine 308, with benzene at 303.15 K” S. Kamila, **S. K. Kamilla**, S. K. Singh and B. B. Swain, [Russian Journal of Physical Chemistry A, Focus on Chemistry](#), Vol- 81, No- 11 / November 2007, pp-1723-1895.
4. “Ni-Doped ZnO Semiconductor” J.Mohapatra,**S.K.Kamilla**,S.K.Singh, *Orissa Journal of Physics*, Vol-16,No-1,Feb 2009,pp-81-86
5. “A Study of resolution and brightness of eclipsing binary star of unequal brightness using simple Mathematical equations”.S.K.Pattanaik,**S.K.Kamilla**, G.S.Ray *Journal of Orissa Mathematical Society* Vol-1-2, page 127-138.
6. “A Study of Visual Binary Stars - Calculation of Orbital Parameters of WDS 04374-0951 & WDS 18384+0850”,S.K.Pattanaik,**S.K.Kamilla**, G.S.Ray *Journal of Ultra Scientist of Physical Sciences* vol 21 no 2 - 2009 Aug (Accepted)

Ms. Jyotsna Mohapatra

1. “Ni-Doped ZnO Semiconductor” **J.Mohapatra**,S.K.Kamilla,S.K.Singh, *Orissa Journal of Physics*, Vol-16,No-1,Feb 2009,pp-81-86

INFORMATION TECHNOLOGY

Prof.G.K.Pradhan, Professor

1. Pradhan95 GK, "Robot Learns to Think",. *Science Reporter*, **32**(4):9-15, April 1995
2. Pradhan94 GK, PK Pradhan, S Rajasekhara, "Stability of Fluid Flow through a Porous Medium", *Journal of Mathematical and Physical Sciences*, **28**(4):149-167, 1994.
3. Pradhan89 GK, "Thermal Stability of a Fluid Layer in a Variable Gravitational Field", *Indian Journal of Pure and Applied Mathematics*, **20**:736-745, 1989.
4. Pradhan87d GK, "Technetics: The Science of the Artificial",. *Book Talk*, **18**(11): 1-16, November 1987
5. Pradhan87c GK, PC Samal, "Thermal Stability of a Fluid Layer under Variable Body Forces", *Journal of Mathematical Analysis and Applications*, **122**(2):487-495, 1987.(Academic Press, New York and London).
6. Pradhan87b GK, B Patra, "Onset of Convection in a Porous Mantle", *Proc. Indian Acad. Sci. (Math. Sci.)*, **96**(1):1-25, 1987.
7. Pradhan87a GK, UK Tripathy, "Spatial Stability Criteria for Rotating, Curved and Axial Shear Flows", *Indian Journal of Technology*, **25**(4):151-154, 1987.
8. Pradhan86b GK, "Robot Mathematicians", *Science Reporter*, **23**:620-622, August 1986.
9. Pradhan86a GK, "A Necessary and Sufficient Condition for Instability of a Stratified Shear Flow, *Indian Journal of Technology*, **24**:340-341, 1986.
10. Pradhan83 GK, B Patra, "Porous Convection in a Globe with Internal Heat Sources", *Indian J. Pure Appl. Math.*, **14**(5):661-670, 1983.
11. Pradhan81 GK, S Rajasekhara, "A Semi-ellipse Criterion for Heterogeneous Spiral Flows",. *Indian Journal of Technology*, **19**(5):173-175, 1981.
12. Pradhan80 GK, B Patra, "Thermal Stability in Self-Gravitating Fluid Cylinders", *Theoretical and Applied Mechanics*, **24**:231-241, 1980.
13. Pradhan78 GK, PC Samal, ["Stability of Axi-symmetric Flows",. *Journal of Mathematical and Physical Sciences*, **12**(4):347-354, 1973
14. Pradhan77 GK, PC Samal, "Stability Criteria for Time-Dependent Flows", *Indian J. Pure Appl. Math.*, **8**(6):801-807, 1977.
15. [Pradhan76] GK, PC Samal, "Nature of the Onset of Thermal Convection in a Completely Confined Porous Medium",. *Indian Journal of Pure and Applied Mathematics*, **7**(3):309-313, 1976
16. [Banerjee75] MB, GK Pradhan, RK Jain, "On the stability of non-homogeneous rotatory Couette flow under gravity", *Journal of Mathematical and Physical Sciences*, **9**(1):57-69, 1975.
17. [Pradhan74] GK, "Linear Stability of a Particular Non-Newtonian Fluid", *Indian J. Pure Appl. Math.*, **5**(1):39-46, 1974.
18. [Pradhan73f] GK, "Surface Tension Instability in a Fluid Layer with Free Boundaries",. *Indian Journal of Pure and Applied Mathematics*, **4**(3):300-307, 1973.
19. [Pradhan73e] GK, "Buoyancy-Surface Tension Instability in a Rotating Fluid Layer",. *Indian Journal of Pure and Applied Mathematics*, **4**(2):215-225, 1973.

20. [Pradhan73d] GK, "Oscillatory Instability in a Revolving Fluid of Variable Density", *Indian J. Pure Appl. Math.*, 4(2):139-148, 1973.
21. [Pradhan73c] GK, "Stability of a Spiral Flow with Cubic Axial Velocity Profile", *Indian J. Pure Appl. Math.*, 4(4):379-390, 1973.
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Mr. Manoj K Mishra, Asst Professor 'n' Head

1. Mr.M.K.Mishra, *et al*, A Comparative study for estimating value at risk (VAR) for non linear portfolios, Siddhant, , A Journal of decision making, RCM, Bhubaneswar, July – Sept. 2007.
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