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A.R. Raina, R. Ramachandran

J.K. Bhattacharjee, K. Banerjee

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J.K. Bhattacharjee, K. Banerjee

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   J.K. Bhattacharjee, K. Banerjee, H.S. Mani

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   J.K. Bhattacharjee

   J.K. Bhattacharjee, D. Chowdhury

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Lorenz-Like Truncation for Onset of Convection in 3He-4He Mixtures Near the Superfluid Transition (Phys. Rev. B - in press)
   J.K. Bhattacharjee, A. Agarwal, K. Banerjee

   J.K. Bhattacharjee, R. Saravanam, O. Narayan, K. Banerjee

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   J.K. Bhattacharjee, R.A. Ferrell

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   M.R.W. Chory, K. Shahi, J.B. Wagner

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G.C. Upreti, R.S. Saraswat

Prem Chand, G.C. Upreti, N.C. Misra R. Srinivasan


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G.C. Upreti, S.K. Misra

S.K. Misra, G.C. Upreti

J.P. Singh

INDUSTRIAL AND MANAGEMENT ENGINEERING

W. Abbas, J.L. Batra

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       P. Sharma, A.K. Mittal, S. Agarwal

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       S.K. GGpta, A.K. Mittal, K.P. Reddy

Interactive Algorithms for Multicriterion Nonlinear Programming Problems (European Jl. of Operations Research - accepted)
       S. Sadagopan, A. Ravindran

       Kripa Shanker, Pradeep Kumar

       J. Ambali, Kripa Shanker

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       A.P. Sinha

       R.K. Ahuja, J.L. Batra, S.K. Gupta

Minimax Linear Programming Problem (Operations Research Letters - accepted)
       R.K. Ahuja

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       R.K. Ahuja

       S. Sadagopan, B.V. Narendra Kumar

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S. Sadagopan, S. Ramesh

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(Proceedings of the 17th ORSI Conference, Ahmedabad, December 1984)
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R.K. Ahuja

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July 28-31, 1985, Berkeley, USA)
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J.L. Batra

MATERIAL SCIENCE

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  D. Bahadur. S. Ram. D. Roy

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The Effect of Homovalent Substitutes on the Phase Transition and
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   A.C. Josht", S. Gupta. K.S. Gandhi

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   of Nuclear Energy - in press)
   P. Munshi, R. Bhatnagar, K. Sri Ram
Books

AERONAUTICAL ENGINEERING

~ Fluid Mechanics and Its Applications (Wiley Eastern)
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CHEMICAL ENGINEERING

~ Reaction Engineering of Step Growth Polymerization (Plenum, N.Y., in press)
   S.K. Gupta, A. Kumar

~ Fluid Mechanics and Its Applications (Wiley-Eastern, New Delhi, 1984)
   V. Gupta, S.K. Gupta

~ Fundamentals of Heat Exchanger and Pressure Vessel Technology
   J.P. Gupta

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~ Chapter on Optimization of Steam-Hydrocarbon Reformers in:
   "Frontiers in Chemical Reaction Engineering" (Wiley Eastern Ed.
   Doraiswami and Mashelkar, 1984)
   ~ D.N. Saraf, S. Sarath, R.K. Malik

CIVIL ENGINEERING

~ Engineering Hydrology (Tata McGraw-Hill, New Delhi, 1984)
   K. Subramanya

ELECTRICAL ENGINEERING

   S.K. Bose

~ Thyristorised Power Controllers (Wiley Eastern - in press)

   J. Das, S.K. Mullick, P.K. Chatterjee
HUMANITIES AND SOCIAL-SCIENCES

R. Pandey

Social Inequality and Demographic Processes (Mittal Publications, New Delhi, 1985)
A.K. Sharma

Theory of Firm: Economic and Managerial Aspects (East West Press, New Delhi, 1985)
T.V.S. Ramamohan Rao

Disequilibrium in Rail Freight Services (Ananta Books International, New Delhi, 1985)
T.V.S.R. Rao

Case Hindu and Scheduled Caste Children in Rural India (Ess Ess Publications, New Delhi, 1985)
Omprakash

MATHEMATICS

Ganit Kallmudi - An Outline of History of Mathematics
(Mathematical Science, 1985)
R.S.L. Srivastava

G.P. Kapoor, O.P. Juneja

Manjul Gupta, P.K. Kamthan

METALLURGICAL ENGINEERING

Principles of Extractive Metallurgy (The Indian Institute of Metals, Calcutta, 1984)
Ahindra Ghosh, Hem Shanker Ray

Sintered Metal-Geramic Composites (Elsevier, Amsterdam, 1984)
G.S. Upadhyaya

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Conferences attended

AERONAUTICAL ENGINEERING

Workshop on Preliminary Orbit Determination, Bangalore, January 1985
K. Kumar

CHEMICAL ENGINEERING

XXXVII IICHE Annual Meeting, New Delhi, Dec. 1984

D.N. Saraf, K.A. Narayan

VII R & D Program on Computer Simulation Studies of Ammonia Plants, Fertilizer Association of India, Phulpur, September 1984
D.N. Saraf

ACS Symposium on Reverse Osmosis and Ultrafiltration, Philadelphia, USA, August 1984
P.K. Bhattacharya

VII All Union Heat and Mass Transfer Conference, Minsk, USSR, May 1984
J.P. Gupta

CHEMISTRY

National Symposium on Organic Chemistry, Calcutta, March 1985
S. Chandrasekaran

Research School of Chemistry, Australian National University, Australia, June 1985
S. Chandrasekaran

School of Fluorescence, Symposium on Photophysical and Photochemical Process in Biological Systems, Hyderabad, April 12, 1985
S.K. Dogra
V National Workshop on Atomic and Molecular Physics, Bombay, 1984
P.K. Ghosh

A Short Course on the Synthesis of Vitamin B12, RRL, Hyderabad, May-June 1985
S. Ranganathan

A Short Course on Woodward-Hoffmann Rules" RRL, Hyderabad, June 1985
S. Ranganathan

Diamond Jubilee Celebrations of the Indian Chemical Society, Calcutta, October 1984
S. Sarkar, N. Sathyamurthy

Annual Meeting of the Indian Council of Chemists, Gorakhpur, January 1, 1985
N. Sathyamurthy

DST/PAC Workshop on Update in Inorganic and Physical Chemistry, Bangalpre, January 13-14, 1984
N. Sathyamurthy

V International Conference on Organic Synthesis, West Germany, February 1984
S. Chandrasekaran

V Asian Symposium on Medicinal Plants and Spices, Seoul, South Korea, 1984
D.N. Dhar

XXIII International Conference on Coordination Chemistry, Boulder, USA, July 29 - August 3, 1984
S. Sarkar

II International Conference on Bioinorganic Chemistry, Algarve, Portugal, April 15-19, 1985
S. Sarkar

CIVIL KBGIBKKRING सिविल अभियंत्रण विभाग

National Seminar on Pollution Control and Environmental Management, Nagpur, March 12-20, 1985
C. Venkobachar
VIII World Conference on Earthquake Engineering, San Francisco, USA, July 1984  
S.K. Jain

Summer School on Thermodynamics for Earth Scientists, Roorkee, June 1984  
B.C. Raymahashay

LXIV Annual Meeting of the Transportation Research Board, National Research Council, Washington D.C., USA, January 14-18, 1985  
S.P. Palaniswamy

National Symposium on Formulation and Appraisal of Irrigation Projects, Patna, March 28-30, 1985  
V. Lakshminarayana

XXIX ISTAM Congress, Surathkal, Karnataka, December 27-30, 1984  
T. Gangadhariah, K. Subramanya

Yudhbir

International Conference on Computer Aided Analysis and Design of Concrete Structures, Part II, Yugoslavia, 1984  
A.S.R. Sai

Asia Pacific Symposium on Ferrocement Applications for Rural Development, Roorkee, 1984  
A.S. R. Sai

XXIX Indian Society for Theoretical and Applied Mechanics (ISTAM), Surathkal, 1984  
A.S.R. Sai

Computer 85 - II International Conference on Computer-aided Analysis and Design in Civil Engineering, Roorkee, 1985  
A.S.R. Sai

II International Symposium on Ferrocement, Bangkok, Thailand, 1985  
A.S.R. Sai

National Seminar on Tall Reinforced Concrete Chimneys, New Delhi, 1985  
A.S.R. Sai
Annual Convention of Computer Society of India, March 1985
R. Sangal, Om Vikas

Conference on Social and Philosophical Implications of Artificial Intelligence, NISTADS, New Delhi, December 1985
R. Sangal

Workshop on Computer Aided Instruction, Delhi, March 1985
Om Vikas

International Conference on Computers Systems and Signal Processing, Bangalore, December 1985
Om Vikas

ELECTRICAL ENGINEERING

Seminar on Application of Microprocessors in Mines- CMPDI, Ranchi, February-March, 1985
R. Raghuram, P.K. Joshi

Workshop on Review of State-of-the-Art in CAD for LSI/VLSI, Chandigarh, March 1985
R. Raghuram

Conference on EHV Technology, Bangalore, August 1984
K. R. Padiyar

International Conference on Computers, Systems and Signal Processing, Bangalore, December 1984

National Systems Conference, Bombay, December 1984
K.E. Hole, K.R. Padiyar, R.P. Agarwal

INSA Seminar, Calcutta, February 14-16, 1985
J. Das

Seminar on Telecommunication, DEAL, Dehradun, March 16, 1985
J. Das

XI Annual Convention (ACE) of IEEE India Council, Calcutta, December 1984
S.K. Mullick
Seminar on HV Power Transmission and Distribution Systems, New Delhi, May 1984
   R. Arora

Conference and Workshop on EHV Technology, Bangalore, August 1984
   R.D. Begamudre, R. Arora

Industry Applications Society, IEEE-IAS - Annual Meeting, Chicago, USA, September 30 - October 4~ 1984
   S.R. Doradla

HUMANITIES AND SOCIAL SCIENCES

International Association of Cross Cultural Psychology, Mexico, 1984
   Usha Kumar

International Conference on Third World Trade Unionism, Ottawa, Canada, 1984
   E. Haribabu

International Workshop on Development of Biosphere Stability, New Delhi, 1984
   B. Rath

XVIII All Orissa Annual Economic Conference, Jeypore, Orissa, 1985
   B. Rath

All India English Teachers' Conference, Pune, 1984
   S.K. Aithal

Seminar on Calligraphy, Lettering and Typography of Indian Languages, Calcutta, 1984
   B.N. Patnaik

National Seminar on Indian English, New Delhi, 1985
   B.N. Patnaik

Seminar on Philosophy of Science in the Indian Context, New Delhi, 1984
   R. Prasad

Seminar on Sociology of Knowledge, Chandigarh, 1985
   R. Prasad
ICPR Seminar on Man, Society and Environment, Lucknow, 1985
R. Prasad, S.A. Shaida

National Seminar, Saugar, December 1984
S.N. Mahajan

XXI Conference of the Indian Academy of Applied Psychology,
L. Krishnan

Seminar on Women’s Education and Employment, Kodai Kanal, 1984
P.N. Rastogi

Seminar on Marx, Asia and Sociology, Varanasi, 1984
R. Pandey

National Seminar on the Sociology of Professions, Jodhpur, 1984 R. Pandey

National Seminar on Peasants and Peasant Resistance in Eastern India, Shillong, 1984
V.K. Jairath

National Seminar on Indian Scientific Community; Bangalore, 1985
V.K. Jairath

S.N. ?ikder Lecture, Assam Science Society, Guwahati, 1985
V.K. Jairath

North-East India Council for Social Science Research
A.K. Sharma

Teacher Training Programme in Art Education, NCERT, Udaipur, 1985
R.K. Bhatnagar

MATHEMATICS

Indian Science Congress, Lucknow, January 3-8, 1985
R.S.L. Srivastava., J.B. Shukla, J.N. Kapur

V International Congress on Mathematics Education, Adelaide, August 1984
J.N. Kapur
Engineering and Physics in Life Sciences Conference, - Adelaide, August 1984
J.N. Kapur

Annual Conference of Indian Society of Agricultural Statistics, Calcutta, November 1984
J.N. Kapur

Workshop on Preparation of Lectures, Kanpur, December 1984-
J.N. Kapur

Association of Mathematics Teachers of India, Annual Conference; Pune, December 1984
J.N. Kapur

Workshop on Patterns in Mathematics, NCERT, New Delhi, January 1985
J.N. Kapur

National Symposium on National Integration, Kanpur, February 1985
J.N. Kapur

J.N. Kapur

Workshop on the Applications of Mathematics in Economics, Allahabad, April 1985
R.S.L. Srivastava

Xlt International Biometrics Conference, Tokyo, Japan, September 1984
G.K. Shukla

Silver Jubilee Session of Indian Society of Agricultural Statistics, New Delhi, December 1984
G.K. Shukla

International Conference on Differential Equations, Edinburg, USA, May 20-2-3, 1985 M. Ram

Autumn School on Semi-groups and Applications, ICTP, Trieste, Italy, October 2-6, 1985 P.C. Das

Mohan Rao
National Conference on Indus-rial Tribology, Hyderabad, 1984
Peeyush Chandra

UGC Instructional Conference on Harmonic Analysis on Locally Compact Groups, Bombay, June 3-22, 1985
U.B. Tewari

M.K. Kadalbajoo

II Workshop on Numerical Solution of Boundary Value ODEs, Vancouver, Canada, July 10-13, 1984
M.K. Kadalbajoo

International Congress on Computational and Applied Mathematics, Leuven, Belgium, July 24-27, 1984
M.K. Kadalbajoo

MECHANICAL ENGINEERING

 CSI Seminar on Computers and Industry, Allahabad, January 4-6, 1985
S.G. Dhande

NACOMM-85, Bangalore, February 1985
A.K. Mallik- S.G. Dhande

IEEE International Conference on Computers and Systems, Bangalore, January 1985
S.G. Dhande

IFIP International Conference on CAD/CAM/CAE, Bangalore, June 29-30, 1985
S.G. Dhande

III International Conference on Boundary and Interior Layers, Dublin, Ireland, June, 20-22, 1984
V.K. Garg

XXIX ISTAM Congress, Surathkal, Karnataka, December 27-30, 1984
V.K. Garg

Seminar on Solidification and Casting of Metals, Roorkee, 1984
V.K. Jain

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H.C. Agarwal

Symposium on Recent Developments in Welding Metallurgy and Processes
Bombay, February 1985
G.S. Kainth

VI ISME Conference, Delhi, January 1985
G.S. Kainth

A. Ghosh

G.K. Lal, K. Sriram, M.K. Muju

V. Sundararajan

A. Ghosh

V. Bansal, G.S. Upadhyaya

A.R. Das

R.K. Dube, G.S. Upadhyaya

K.P. Gupta

S.P. Gupta, G.S. Murty
XXX International Symposium on Advances in Electrical Science and Technology, Madras, December 9-13, 1984
K.P. Singh

K.P. Singh

National Seminar on Crystal Growth, Madras, August 29, 1984
M.N. Shetty

XI National Powder Metallurgy Conference, Jamshedpur. February 8-9, 1985
G.S. Upadhyaya

International Conference on HSLA Steels, Australia, August 20, 1985
M.N. Shetty

Workshop on Indian Astrology for the Federation of Australian Astrologers, August 26, 1984
M.N. Shetty

National Seminar on Mn-nodules, Bhubaneswar, March 1985
R.K. Ray

XIII Biennial Congress of the International Deep-drawing Research Group, Melbourne, 1984
R.K. Ray

**PHYSICS**

International Conference on Nuclear Physics" Bombay, December 27-31, 1984
S.K. Sharma

National Conference on Crystallography, Delhi, December 1984
R.C. Srivastava

VII International Conference on ~ositron Annihilation, New Delhi, January 6-11, 1985
R.M. Singru, Rajendra Prasad

National Symposium on Quantum Electronics, Bombay, January 1985
Bansi Lal
III International Conference on Exafs Studies, Stanford, USA, 1984
S.C. Sen

International Conference on Luminescence, Wisconsin, USA, 1984
S.C. Sen

National Conference on High Energy Physics, Jammu, October 1-84
R. Ramachandran, H.S. Mani

National Seminar on Solid State Physics, Calcutta, February 14-17, 1985
D.C. Khan, A.K. Majumdar

Summer School on Ceramic Materials in Energy Conversion Devices, Kharagpur, June 1984
K. Shahi

INDUSTRIAL AND MANAGEMENT ENGINEERING

Annual Conference of International Federation of Operations Research Societies, Washington D.C., USA, August 1984
A.K. Mittal

Annual Convention of Operational Research Society of India, Ahmedabad, December 1984
A.K. Mittal, S. Sadagopan, Kripa Shankar

V International Conference on Mathematical Modelling, Berkeley, USA, July 20-31, 1985
J.L. Batra, R.K. Ahuja

International Symposium on Mathematical Programming, Boston, USA, August 5-9, 1985
J.L. Batra, R.K. Ahuja

Symposium on System Improvement through Operational Research Systems Analysis, New Delhi, February 1985
Kripa Shankar

MATERIAL SCIENCE

IV International Conference on Ferrites, San Francisco, USA, October 31 - November 2, 1984
D. Bahadur

National Seminar on Ferroelectrics and Dielectrics, Bangalore, October 17-19, 1984
K.V. Rao

Symposium on Quantum Electronics, Bombay, January 14-16, 1984
K.V. Rao
Sponsored Projects

AERONAUTICAL KGII ENG

Completed

Development of Parameter Identification. Techniques to Extract Aircraft Parameters from Flight Data (ARDB)
S.C. Raipinghani

In Progress

Calibration of Trisonic Wind Tunnel (ARDB)
Vijay Gupta

Low Speed Wind Tunnel (ARDB)
A.K. Gupta, M. Krishnamurthy, Vijay Gupta, N.G.R. Iyengar

CHEMICAL ENGINEERING

Completed

Hydrodynamics, Mixing and Mass Transfer in Turbulent Bed Contactor (CSIR)
D.P. Rao

In Progress

Inter and Intra Molecular Energy Transfer (DST)
Y.V.C. Rao

Study of Vibrational Relaxation Times in CH₄ -O₂, SO₂ -O₂, C₂H₆O₂ Mixtures (CSIR)
Y.V.C. Rao

Study of Coke Formation During Naphtha Pyrolysis (DST)
D. Kunzru, S. Bhatia

Passive Drinking Water Cooler - (TERI) D.P. Rao
Alkali Metal Induced Generation of Radical Anion and Dianion Intermediates and Their Role in Organic Transformations (DST)
M.V. George

Evolution of Earth's Atmosphere (DST)
P.S. Goel

Studies in Pure Nuclear Quadrupole Double Resonance Spectroscopy (DAE)
P.T. Narasimhan

Study of Reactive and Nonreactive Collisions (D-T)
N. Sathyamurthy

In Progress

Studies Directed Toward the Synthesis of Cyclopentanoid Natural Products (DST)
S. Chandrasekaran

Studies in Insect Sex Pheromones (Ministry of Defence)
S. Chandrasekaran

Proton Transfer Reactions in the Excited States (DST)
S.K. Dogra

Photochemical Investigations of Selected Organic Compounds-Mechanistic Aspects and Applications (DST)
M.V. George

Chemical Reactions in Gaseous Plasmas (DST)
P.K. Ghosh

Pre-solar Grains in Meteorites (ISRO)
P.S. Goel

Trace Determination of Environmental Pollutants by Fast Kinetic Methods (DOE)
P.C. Nigam

Development of ~R Imaging Spectrometer and Imaging Techniques for Applications to Studies of Multiconponent Biosystems (DST) P. Raghathan

11.132
Selective Peptide Formation in Captive Environments (DST)
S. Ranganathan

The Preparation of Novel Immobilized Catalysts for Olefin Metathesis (HLRF)
S. Rangana than

Certain Aspects of Molecular Reaction Dynamics (DST)
N. Sathyamurthy

Organopalladium Chemistry in Organic Synthesis: Development of New Synthetic Methods and Total Synthesis of Natural Products (DST)
Y.D. Vankar

Iomophores and Metal Toxication in Biological Systems (INSA)
S.S. Katiyar

CIVIL ENGINEERING

Simulation of Traffic on Narrow Roads (CRRI)
S.P. Palaniswamy

Study of Effect of Road Width on Traffic Flow on Narrow Roads (CRRI)
S.P. Palaniswamy

Water Table Determination using Remote Sensed Data (Department of Space, Government of India)
K.K. Rampal

In Progress

Optimal Design of Anaerobic Digestion to Maximize Biogas Production (CSIR)
C. Venkobachar

Transportation Modelling on Regional Basis for the Trunk Route Highway System (MOST, Government of India)
S.P. Palaniswamy

Mycobacterial Utilization of Fertilizer Waste (CSIR)
A.V.S. Prabhakar. Rao
Text-Book on "Remote Sensing" (UGC)
K.K. Rampal

Text Book on "Mapping and Compilation"
·(QIP) K.K. Rampal

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In Progress viii Sftri'-'n: §

Unix Kernel Development (Uptron, Lucknow) ·G. Barua

Computer Literacy and Studies in Schools (DOE, NCERT) Om Vikas

ELECTRICAL ENGINEERING AND ACES In

Progress ~) smfa qr( I

Clutter Measurement and Modelling (DOE)
P.R.K. Rao

System Design and Studies of Fibre Optic Digital Communication Systems (DRDO)
P.R.K. Rao

Transform and Iterative Techniques in Digital Image Processing (DRDO)
S.K. Mullick

Investigation of Transparent Conductors for Application in Electronic Devices (NSF, USA)
S. Kar

Integrated Devanagari Computer (DOE)
R.M.K. Sinha, S.K. Mullick

Characterization and Modelling of Heavy Doping Effects in Silicon Devices (DST)
M.S. tyagi, Jitendra Kumar

Effect of Acute and Chronic Microwave Radiation on Immunological Systems (DOE)
R. Sharan
Complete

Study on 'Financing of Dairy Animals and Bullock/Bullock Carts under IRDP in U.P. (NABARD, Bombay)
B. Rath

A Review Report on the Correspondence Course of the Post-Graduate Diploma Course in Phonetics and Spoken English of the Central Institute of English and Foreign Languages (CIEFL, Hyderabad)
P.P. Sah

A Review Report on the Correspondence Course of the Post-graduate Certificate Course in Phonetics and Spoken English of the Central Institute of English and Foreign Languages (CIEFL, Hyderabad)
P.P. Sah

Explanation, Prediction, Monitoring and Control of Ethnic Tensions in Indian Society (ICSSR, New Delhi)
P.N. Rastogi

In Progress

Economic Efficiency of the Internal Organizations of a Firm (ICSSR, New Delhi)
T.V.S. Ramamohana Rao

Transportation Planning for Trunk Route System
T.V.S. Ramamohana Rao, S.P. Palaniswamy

Bench Mark Survey for Estimation of the Indirect Secondary Flood Control Benefits of RMP Orissa (CSIR, New Delhi)
B. Rath

A Comparative Study of Work Constructs and Identity in Young Adults in England, France and 'India (Maison des Sainces de l'Hornie, Paris)
Usha Kumar

Helping Behaviour and Reactions to Aid in Indian Society (ICSSR, New Delhi)
L. Krishnan, N.K. Sharma, A.K. Sinha
Development of Weaker Sections - Problems, Politics and Issues
(ICSSR)
Om Prakash

Power Strategies and Leadership Styles in Indian Organizations
(ICSSR, New Delhi)
M.A. Ansari

A Psycho-Social and Educational Problems of the Socially
Disadvantaged Students Studying in IITs (ICSSR, New Delhi)
Omprakash, P.N" Rastogi

MATHEMATICS

In
Progress

Air Pollution
(CSIR) J.B.
Shukla

Peristalsis in Physiological Systems
(CSIR) Punyatma Singh

Text Book on "Applied Mathematical Modelling"
(QIP) J.B. Shukla

MECHANICAL ENGINEERING

In
Progress

CAD of Mechanisms (DST)
A. Ghosh, S.G. Dhande, K. Sriram

Numerical Solutions for Viscous Flow Past Arbitrary 2-D Bodies
using Body Fitted Coordinate Systems (ARDB)
V.K~ Garg

Investigations into Accelerated Cutting for Machinability
Evaluation (CSIR)
V.K. Jain

Group Technology Application in Mechanism Synthesis and
Selection (DST)
A. Ghosh, S.G. Dhande, K. Shankar

Fracture ~oughness of Fibre-Composites using J-Integral
Approach (ARDB)
B.D. Agarwal, P. Kumar, B.P. Singh

J1.136
Design and Development of Solar Water Heating Systems for Indian Conditions (FGP Ltd., Bombay)
H.C. Agarwal

Design and Development of Solar Cookers (FGP Ltd., Bombay) HoC.
Agarwal

Experimental Investigation to Constitutive Relations and Roughness of FRP at High Rate of Loading (ARDB)
P. Kumar, B.P. Agarwal

METALLURGICAL ENGINEERING

Completed

Preliminary Evaluation of Mass Transfer vis-a-vis Interfacial Reaction Control for Carbothermic Reduction of Iron Oxide (CSIR)
A. Ghosh, S. Kumar

In Progress

Low Cost Steel (Ministry of Overseas Development, UK)
R.K. uube

Evaluation and Investigation of Ni Base Ternary Phase Diagrams (ARDB)
K.P. Gupta, A.K. Jena, R.C. Sharma

Cement from Ash by a Low Temperature Route (Tata R & D Centre)
P.C. Kapur

Water Filter from Rice Husk Ash (Tata Rand D Centre)
P.C. Kapur

Cementing of Tobacco Leaves by TiB Rice Husk Burner (Tata R & D Centre)
P.C. Kapur

Optimisation of Grinding Circuit (Grind Well Norton)
P.C. Kapur

Cordierite Refractories (Grind Well Norton)
P.C. Kapur
Development of Materials for Isotopes Separation of $H_2$ and $D_2$ (DST)
K.N. Rai, J.endra Kumar, Sanjay Gupta

Oxidation and Mechanical Behaviour of Chrome-Mo-Ferritic Steel at High Temperature and Pressure in Air and Oxygen (DAE)
K.P. Singh

Corrosion and Fatigue Behaviour of Prestressing Steel Wires (Hindustan Wires Ltd., Kanpur)
Raj Narayan

Development of Simulation Model for Predicting Floatation Recovery/Grade of Chalcopyrite using Laboratory Data (ElL)
S.P. Mehrotra

**PHYSICS**

In Progress

Preparation and Characterization of Magnetic Bubble Materials (DRDO)
D.C. Khan

Fabrication of Argon Ion Laser (DST)
G.N. Rao, G. Chakrapani

Cooperative Monsoon Research Programme (USAIO)
Gyan Mohan, V.K. Deshpande, Y. Ramanathan

Numerical Weather Prediction Related to Monsoon (NSF, USA)
Gyan Mohan, V.K. Deshpande, Y. Ramanathan

Cumulus Convection Parametrization (Indo-US Cooperative Programme)
Gyan Mohan

Orography and Moso-scalo Convection (Indo US Cooperative Programme)
Gyan Mohan

Text Book on "Introduction to Modern Optics" (UGC) A.S. Parasflis

Text Book on "Symmetries, Gauge, Fields and Fundamental Interactions" (UGC)
Tulsi Dass
Development and Theoretical Study of Plasma Recombination Laser (DST)
R.K. Thareja

Nuclear Fission Studies (DAE)
Y.R. Waghware, G.K. Mehta

Studies on Excimer/Exciplex Laser Down Conversion by Raman Mixing (DST)
S.C. Agarwal

Phase Transition in Solids using Laser Raman and IR Spectroscopy (CSIR)
H.D. Bist

Use of Ion Beams in Environmental and other Fields (DST)
G.K. Mehta, Y.R. Waghmare

INDUSTRIAL AND MANAGEMENT ENGINEERING

Technical Manpower Information Centre (Ministry of Education) J.L. Batra, B. Rath

MATERIALS SCIENCE

Development of Glass Fibres for Optical Communications (DRDO)
D. Chakravorty

Preparation and Characterisation of Amorphous Garnets (DOE)
D. Bahadur

Development of Oxide Glass Ceramics with Magnetic Phases (CSIR) D. Bahadur

Study of Mechanical Properties' and Applications in Brazing of Rapidly Solidified Alloy Ribbons (BRNS, DAE)
D.C. Agrawal

Superionic Conductors and their Applications in Energy Conversion and Storage Devices (DST)
K. Shahi
Synthesis and Studies of Electronic and Catalytic Properties of Rare Earth from Non-Metal Oxide Perovskites (DST)
D. Bahadur

Growth and Study of Mixed Tertrates (CSIR)
K.V. Rao, G.C. Uperti
### Consultancy Projects

#### AERONAUTICAL ENGINEERING

**Completed**

Study and Design of Ceiling Fans for Improved Performance (Agra Engg. Industries, Agra)

M. Krishnamurthy, R.K. Sullere

Measurement of Wind Velocity in Crop Shelter-Belts with the Wind Dial (Shri AMM Murugappa Chettier Research Centre, Madras) Kunal Ghosh

**In Progress**

Preliminary Orbit Determination using Filtering Techniques (ISRO) K. Kumar, D. Yadav

#### CHEMICAL ENGINEERING

**Completed**

Development of Package Computer Programme for Hydrogen Gas Mixtures (Bharat Pumps and Compressors)

A. Kumar, S.K. Gupta

Maize Starch Project (Mahavir Starch Products Pvt. Ltd.)

J.K. Gehlawat

Starch and Glucose Project (Nalli Starch and Glucose Pvt. Ltd.)

J.K. Gehlawat

**In Progress**

Starch, Glucose and Sorbitol Project (Amravati Chemicals Pvt. Ltd.)

J.K. Gehlawat
Dynamic Analysis of Diesel Engine Test Bed Foundations (RDSO, Lucknow)
   N.S.V. Kameswara Rao

Design of the Effluent Treatment for the Proposed Leather Finishing Industry (HaziManzoor Alam Industries Ltd., Kallpur)
   C. Venkobachar, Vinod Tare

Surveys for 400 kV Power House Site Near Kanpur (NTPC) K.K. Rampal

Soil Exploration and Foundation Design for Multi-Storey Building (Band Const. Co. Kanpur)
   Umesh Dayal

Functional Design of Effluent Treatment Plant (Hari Fertilizers, Sahipur)
   C. Venkobachar and Vindo Tare

Design of Multistorey Complex (LDA Lucknow) P. Dayaratnam

Design of Crawler Crane Tower (Hindustan Motors, Calcutta)
   P. Dayaratnam

Structural Design of Commercial Complex (LDA Lucknow) P. Dayaratnam

Structural Analysis of Tall Building (UPRNN, Lucknow) P. Dayaratnam

Re-Evaluation of Stability of DIS Slopes of Beas Dam at Pong (Beas Design Office, Nangal)
   Yudhbir and P.K. Basudhar
• Unix Development on Micro 32 (ECIL - Hyderabad) G. Barua

ELECTRICAL ENGINEERING

In Progress

Design and Development of Signal Averagers (DST-CEL)
K.R. Sarma

Design and Development of a Microprocessor-baseq Indoor
Processing Subsystem of Rail Axle Counting System (CEL)
K.R. Sarma

Power System R & D Cell of the UP State Electricity Board in IIT
Kanpur (UPSEB)
L.P. Singh

MECHANICAL ENGINEERING

CAD of Press Tools (Godrej)
S.G. Dhande

CAD of Automotive Components (TELCO)
S.G. Dhande

Vibration Dynamics of Transmission Lines (EMC, Calcutta)
A.K. Mallik

Mathematical Modelling of Wheel Sets (RDSO) B.P.
Singh, V. Sundararajan

MAT.ERIALS SCIENCE

Development of Ni Base Catalyst for Catalytic Refining of Naphtha
(IEL, Kanpur)
K.N. Rath