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Annexure

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Effect of process-induced damage on 115 R thin gate oxides

and their removal by low temperature passivation, Proc. 3rd

International Symposium on Ultra Large Scale Integration
Science and Technology, Washington, D.C., May 5-10, 1991

1\ S. Kar, A. Pandey, A. Raychaudhuri, and S. Ashok

On the modelling of TiO_2 structures on compound
semiconductors, Proc. XIV St. Jtc-of-the Art Program on ... Compound
Semiconductors, Washington, D. C. July 7-9, 1991

S.Kar

Coated powders for ceramic and composites, Proc. International
Symposium on Advanced Ceramics, ARC, Bombay, March 1990

S.B. Mazumder, G.V. Ramani and D. C. Agrawal,

Mechanical properties of alumina sintered in a carbon
atmosphere, Proc. National Conference of Advanced Ceramics,
IIT Bombay, March 1990.

S. Bhattacharya and D. C. Agrawal

Porosity and grain growth in sol-gel zirconia films, Proc.
National Conference of Advanced Ceramics, IIT Bombay, March
1990

V.V.S.N. J. Chakrapani, P.T. Rajagopalan and D.C.
Agrawal

Centre for Laser Technology (a)

In Journal

Studies of Excimer Laser Produced Copper Plasma in the presence of
background gases, J. Appl Phy 67, 3260, 1990

V. Kumar & R.K. Thareja

Laser Optogalvanic studies of SiC , Hydrofine and structure studies, J Opt Soc.
Am. B 8, 12, 1991

Ranjit Singh, G. N. Rao and R.K. Thareja

Laser Induced Breakdown of Air gas near metal surface, Laser and Particle Beams (in press)

V. Kumar & R.K. Thareja

Laser Induced Air Breakdown using 0.355, 0.532 and 1.06um Radiation, Pramana, J. of Phys (in press)

R. Tambay, D. Mathu, V. Kumar & R.K. Thareja

Laser Induced Breakdown Studies of Lab, air at 0.266, 0.355, 0.532 and 1.06 um. J. Appl. Phys (in press)

R. Tambay, R.K. Thareja

Continuous Wave Self-diffraction in Dye Doped Glasses, J. Opt. Soc. Am B. (in press)

G. Ravindra Kumar, B.P. Singh and K.K. Sharma

Structural Phase Transition and Internal Fields in Rubidium Thiocyanate Probed through Vibrational Spectroscopy, Z. Phys. B: Cond. Mat. (in press)

S. Sathiah and H.D. Bist

Vibrational Spectroscopy of Structural Phase Transition and Raman Evidence of Librational Fluctuations in Thallium Thiocyanate, Phys. Stat. Solidi, 164(1), 1991

S. Sathiah and H.D. Bist

Vibrational Dynamics and Phase Transition in UO₂ (N₂O) through Raman Spectroscopy, J. Phys. Chem. Solids (communicated)

P.K. Khulbe, Renu Tripathi and H.D. Bist

Raman Effects & Lasers, Unesco Source Book for Science Teachers (in press)

Bcms i La L

(b) In Conferences Proceeding

Vibrational Spectroscopy of Structural Phase transitions' and
.Laser Induced instabilities in some Univalent Thiocyanates,
DAE Solid st. Phys. .symposium, BARC, Bombay, 1991,

S. Sathaiah and H.D. Bist

EPR and low field microwave absorption in High T_c
Superconductors: YBa Cu O International Summer School,
Nathiagali, Pakistan, 1991

~Id. Shahbuddin and H.D. Bist

Black body pumped short wave length lasers, Int. lworkshop in
Lasers and its Appl. No\'. 12-30, 1991, Indore

f:

R.K. Thareja

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Chemistry

Reaction Dynamics Recent Advances, Narosa, New Delhi, 1991

N.. Sathyamurthy

Lasers in Chemical reaction dynamics, chapter in "Laser in
Chemical and Biological Sciences", ed. P. Chopra and H.M.
Chawla, Wiley Eastern, New Delhi; Delhi, 1991

N. Sathyamurthy

Fractals and resonances in collinear atom-diatom collisions,
in "Chemical Kinetics and Reaction Mechanism", ed. K.S.
Gupta, RBSA Publishers, Jaipur, 1991

N. Sathyamurthy

Proton Transfer Lasers,' Chapter in Laser in Chemical and
Biology Sciences, Ed. P. Chopra and H.~r. Chatvla, Wiley
Eastern, Ne~ Delhi, 1991

S.K. Dogra

Chemical Engineering

P.C. Interfacing Process for Laboratory Data Acquisition and
Control, 1989 Instrument Society of America, U.S.A.;

S. Gupta and J.P. Gupta.

Laboratory Nannual for Chemical Engineering Laboratory-,
August 1990

D. Kunzru

~Zeolite Catalysis; Principles and Applications, CRC Press,
Inc.Boca Raton, Florida
(USA), 1990,

Subhash Bhatia

Computer Science & Engineering

Programming Paradigms in LISP McGraw Hill, New York, 1991,

Rajeev Sangal

Humanities & Social Sciences

Managing People at Work, New Delhi: Sage, 1990.

M.A. Ansari

Devel~pment of the Weaker Sections: Problems, Policies
and Issues, Uppal Publishers, 1990.

'S. Omprakash

The Role of Intellectuals in Contemporary Society, New Delhi: Mittal Publications, 1990.

Rajendra Pandey

Breast Feeding and the Working Women of India, Allahabad: Chugh Publications, 1990.

Rajendra Pandey

Tourism and Development in India, Ashish Publishing House. New Delhi, 1991.

Suhita Chopra

Micro-economic Analysis, New Delhi: Wiley Eastern (under print).

R. R. 83rd vol

ER

Chapters Contributed to a Book

Leadership Behaviour and Organisational Effectiveness. In A. Hassan and S.K. Singh (eds.), Organisation Research in Indian Perspective, New Delhi: Northern DOCK, pp. 9-11).

1981. Ansari

(i) Culture of Productivity and (ii) Essence of Leadership. In V.S.P. Rao (ed), Management in Action, Delhi: Excel Publications.

P.N. Rastogi

Environmental Hazards of the Talcher Industrial Complex and their Socio-Economic Impacts in the Brahmani Flood-plain, in L. Pattanaik (Ed.) The Environmental Impacts of Industrial and Mining Activities Ashish Publication HoU, pp. 11-15.

Binayak Hath

Mechanical Engineering

Principles of Vibration Control - Affiliated East-West Press
(P) Ltd., New Delhi, 1990

A. K. Mallik

Metallurgical Engineering

Principles of Secondary Processing and Casting of Liquid Steel, Oxford & IBH
Publishing Co. Pvt. Ltd., New Delhi, Dec. 1990

Ahindra Ghosh

Physics

Understanding Special Theory of Relativity, Vikas
Publications, 1990,

Y. R. Jaghmare

Classical Mechanics, Prentice-Hall of India, Delhi, 1990,

Y. R. Jaghmare

Introduction to Nuclear Science and Technology, A H Wheeler
and Co., Allahabad, 1991,

K. Sri Ram and Y. R. Waghmare

Positron Annihilation and Compton Scattering, Omega
Scientific Publishers, New Delhi, 1990,

B K Sharma, P C Jain and R M Singru

Compton profile and positron angular correlation techniques - a
comparison, [A chapter published in "Positron Annihilation and Compton
Scattering" edited by B K Sharma, P C Jan and R M Singru, Omega Scientific
Publishers, New
Delhi, 1990, page 1-16,]

R. N. Singru

High-Tc Superconducting Films: Preparation and Characterization, Paper (chapter) published in "Positron and Positronium Chemistry" edited by Y C Jean (World Scientific, Singapore, 1990) pages 507-11J,

v. N. Kulkarni and R. I. Singru

Amorphous and Liquid Semiconductors, North Holland, 1989

N. Paesler, S. C. Agarwal and R. Zallen

Advanced Centre for Materials Science

Phase Diagrams of Nickel Ternary Alloy, Part I, Monograph series on Alloy Phase Diagrams published by the Indian Institute of Metals, Calcutta, 1990

K.P. Gupta

Industrial and Management Engineering

Interactive Relational Database Design : A Logic Programming Implementation, Monograph, Springer-Verlag Berlin, 1989.

T. P. Bagchi and V. K. Chaudhri

Statistical Methods in Quality Assurance and Inspection: An Introduction, a 200 page (20 hours) Course package developed under ISTE Sponsoring.

T. P. Bagchi,

Improved Stockout Performance in MRP Systems, in Design Automation and Computer Integrated Manufacturing, edited by Dr V Raju, Section 10, pp. 275-282. Tata McGraw Hill Publishing Company, 1991.

R. R. K. Sharma and V. S. Potty

CONFERENCES ATTENDED Outside IIT Kanpur

AEROSPACE ENGINEERING

17th Congress of International Council of Aeronautical Sciences, Stockholm, Sweden, Sept. 9-14, 1990, N.L. Arora presented a contributed paper

Symposium on Experimental Determination of Wind Loads on Civil Engineering Structures, New Delhi, Dec. 5-17, 1990, A.K. Gupta presented a contributed paper

World Renewable Energy Congress, London, U. K. Sept. 23-28, 1990, K. Ghosh presented a contributed paper

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International Conference on Mathematical Theory of control, IIT Bombay, Dec. 10-15, 1990, K. Kumar & D. Yadav presented a joint contributed paper

r'.

Sixth National Convention of Aerospace Engineers on Aerothermodynamics of Internal Flows, Bangalore Jan. 24-25, 1991, R.K. Sullerey presented a contributed paper

Indo-US workshop on Composites for Aerospace Application July 23-26, 1990, Bangalore, NGR Iyengar presented an invited paper

International Conf. on Advances in Structural Analysis & Design July-3D Aug. 1990, Bangalore, NGR Iyengar presented two contributed papers

CHEMICAL ENGINEERING:

RO case study with textile dyeing process effluents, Reverse-Osmosis for water and waste water, Bombay, Nov. 10-11, 1990 Indian Water Works Association, Bombay Centre; 102;

P.K. Bhattacharya & S. Gupta

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CIVIL OC rNEERI~

Second International Conference on Recent Advances in
Geotechnical Earthquake Engineering and Soil Dyanamics, St.
Louis, rlissouri, USA, 11th to 15th ~Iarch, 1991,

P.K. Basudhar contributed a paper

Second Biennial tvater ~ality Symf:'Osium : Microbiological
Aspects, Vina del ~Iar, Chile, 27-31 August, 1990,

r!alay Chaudha ri contributed t\.;o papers and chaired a
session

Sympos iurn on Resource ~lapping and Gecphys ical Surveys using
Space Technology, CaSPAR 1991, The Hauge, The Netherlands,
25th June - 6th July, 1990,

R.P. Singh presented an invited p.Jper and contributed a
paper

CI11PurE SCIENCE & EtiCINEERU.x;

10 FST~TCS : Tenth Int. CenE. on foundations of Soft\.,iare
Technology & llleoretical Computer Science, Bangalore, 17-19
Dec., 1990

S. Biswas (Chaired session)

10 fSTTCS, Rajeev Sangal (gave invited lecture) 10

fSTTCS, Asish Nukhopadhyay (attended)

KBCS90 : Conf. on Knowledge based Computer Systems, Pune,
13-15 Dec. 1990,

Rajeev Sangal (presented paper, chaired session)

KBCS90, Vineet Chaitanya (Presented paper) KBCS90,

B. Srinivas (Presented paper)

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KBCS90 P.V. Ravi Sankar (Presented paper)

KBCS90, R. Sangal, V. Chaitanya, B. Srinivas, P.V. Ravi Sankar (Exhibited Linguist's workbench)

~fAS: National Seminar on ~leaning & Skepticism, Dept. of Philosophy, Univ. of Delhi, 15-17 ~larch 1991,

Rajeev Sangal (Keynote lecture)

~tAS, Vineet Chaitanya (Key Note Lecture)

~~S, Kalyan S. Basu (presented paper)

Lecture at Simon Fraser ~iv., July 1990,

Asish Nukhopadhyaya

10th Int. Conf. on Computer Communication, Ne~v Delhi, Nov. 1990, G. Banla (chaired sE:ssion)

CSI90: Annual ConE. oE COTiputer Society oE India, ~alcutta, Nov. 1990, B. Srinivas & P.V. Ravi Sankar (attended &

exhibited prototype ~lachine Translation System developed by IIT Kanpur)

Int. Conf. on Pattern Recognition, Atlantic City, NJ, USA, 12-17 June 1990, ~~ Sinha (presented paper)

Le~ture at Kent State Univ., July 1990, R~K Sinha

Humanities and Social Sciences

National Workshop on Area Specific Approach in Family Welfare, July 1, 1990, Population Centre, Lucknow

A.K. Sharma

Second Workshop on Area Specific Approach in Family ~elfare, III,(- IIT Bombay, Sept. 8, 1990

A.K. Sharma

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National Seminar on Reconstructing Theories of Modernisation and Development, Centre for the Study of Social Systems, School of Social Sciences, JNU, New Delhi, March 22-24, 1991

Sharad K. Tapasvi

Invited to participate in Fellows Colloquium, held at Butler Palace (ICPR) Lucknow, Dec. 18-21, 1990

Anupam Yadav

Invited to participate in the Project titled: Artists Against Communalism: Images and Words. All India Exhibition inaugurated on 12th April, 1991 at Delhi

R.K. Bhatnagar

Mathematics

Dr. P.C. Das delivered a plenary lecture on "Capillary surface problems" at the International Conference on Theory of Differential Equations and Application to Oceanography, held at Panaji Goa in Dec., 1990.

Dr. D.P. Juneja was in the organizing committee of the international conference on New trends in "Geometric Function Theory and Applications" held at Ramanujan Institute Madras University in July 1990. He delivered a half an hour talk on "Univalent functions with univalent Gelfand-Leontev derivative".

Dr. G. P. Kapoor attended the International conference on New Trends in Geometric Function Theory and Applications held in July at Ramanujan Institute, Madras and delivered a half an hour talk on "Extreme points and support points of families of analytic functions".

Dr. V. Raghavendra delivered a half an hour lecture on "Exterior Boundary Value problems for "elliptic equations" at the international conference on Differential Equations and applications to Oceanography held at Panaji Goa in Dec. 1990.

Dr. ~I.R.N. Rao delivered a plenary lecture on "Stability of Integro-differential Equations with impulses" at the International Conference 0:1 Theory of Differential Equation and appalications Oceanography held at Panaji Goa in Dec. 1990.

Dr. G.K. Shukla was a member of the organizing committee of the conference of the International Biometric society held at Bangalore and was elected to the executive Council of the International Biometrics socie~y.

J.B. Shukla delivered a lecture on effects of toxicants on marine ecosystems - A nonlinear differential equation model in the International Conference on Theory of Differential Equations and Application to Oceanography at Goa in December 1990.

_-'I- Mechanical Engineering

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."

International Symposium on Intelligent Robotics, Bangalore, January 1991,

A. Gh<:-sh and A.K. tvlailik.

Tenth International Conference on the Use of Computers in Radiation Therapy, LUCKnON, Nov. 1990,

P. Munshi

Indian Computing Congress, Hyderabad, 1990,

P. Munshi.

International Conference on Advances in Structural Testing Analysis and Design, 29th July - 3rd August, 1990, Bangalore,

K. Ramesh

National Seminar on Economic Utilization of Renewable Energy Resources, May 1990, Aligarh Muslim University,

M. H. Prasad

Metallurgical Engineering

IPF / 1991 Powder Metallurgy Conference & Exhibition, June 9-12, 1991, Chicago, U.S.A., Presented a paper,

M. L. Vaidya

International Workshop on Metallurgical Fluid Flow, held at Lulea, Sweden, during June 27-29, 1990, Presented a paper,

S. P. Mehrotra

Annual Technical Meeting of Indian Institute of Metals held at Tiruchirappalli, Nov 15-18, 1990, Chaired a Technical Session.

International Conference on Superplasticity in Advanced Materials (SAPT-91), Osaka, Japan, June 3-6, 1991, Presented a paper,

C. S. Hurthy

Annual Technical Meeting of IIT, Nov. 14-19, 1990, Trichy, Tamil Nadu, Chaired a Session,

R. C. Sharma

International Conference on the Advances in Chemical Metallurgy, IITC, Bombay, Jan. 9-11, 1991, Presented paper,

Rajiv Shevkar

International Symposium on Advanced Ceramics, Bombay, Nov. 1990, Presented a paper,

G. S. Hurthy

International Conference on Chemical Metallurgy, BARC, Bombay, Jan. 91, Presented a paper,

K.N. Rai

National Welding Workshop on "Welding Technology and its Application", ROSA, Lucknow, Feb. 18-23, 1991, Presented a paper,

N.K. Batra

8th International Symposium on Surfactants in Solutions, Gainesville (USA), June 10-15, 1990, Presented a paper,

A.K. Biswas

6th International Iron & Steel Congress, Nagoya (Japan), Oct. 21-26, 1990, Presented a paper,

R. K. Dube

Annual Technical Meeting of IIT-I, Tiruchirappally, 15th Nov. 1990, Presented a paper,

A. Ghosh

Discussion Meeting on Secondary Steelmaking, Bombay, 13th April 1990, Presented a paper,

A. Ghosh

Annual Technical Meeting of IIT-I, Tiruchirappally, 15th Nov. 1990, presented a paper,

D. Nazumdar

International Conf. on Chemical Metallurgy, BARC, Bombay, 9 11th Jan. 1991, Presented a paper,

D. Nazumdar

CALPHAD xx Conference, Jamshedpur, Presented papers and
Chaired a session,

K.P. Gupta

Physics:

SERC-Workshop on Sub-Barrier Fusion, Delhi University, 8-10
October 1990,

S K Saha

Workshop on High Energy Phenomenology, Calcutta, Jan 1-15,
1991,

H S Ghani, Gave a talk

BCSP Workshop. Kathmandu, Nepal, May 19-26, 1991, H S
Ghani, Gave a series of six lectures

The 5th International HFI-Interdisciplinary conference, Pittsburgh, USA, June
18-21, 1991. Presented 10 contributed papers

Industrial College on Lasers and Fibre Optics, Jan 21-Feb

15, 1991, ICTP, Trieste, Italy,

Bansi Lal

International Meeting on Ultrafast Phenomena, Feb 18 - March 8,
1991, ICTP, Trieste, Italy,

Bansi Lal

National Conference on Oxides and their technologies,
Kolhapur, Shivaji University, February 21-23, 1991,
Presented an invited talk, chaired a technical session and
acted as a moderator in a panel discussion on undergraduate
education in India

D.C. (Jan)

-Nat Sym Photoscience April 4-7 (1990), Nainital,

H D Bist, K K Sharma and R K Thareja

Laser Chemistry and Phys tworkshop, ~ray 19-June 1,1991,
Dalian, China,

H D Bist

Int Workshop on lasers and its appl. Nov 12-30, 1990,
Dore,

R K Thareja

Int. Conf. on Q..lantum Opt:ics, Jan 4-9, 1991, University of
Hyderabad, Hyderabad,

G Ravindra Kumar, Bipin Bihari and R S Gurjar

Third International Workshop on Positron. and Positronium
Chemistry, July 16-18, 1990, ~il\.,'ankee, USA, Chairman of a
scientific session, Presented a paper

1, Symposium on Materials Research at IIT Kanpur, Jan 18-19,
1991, S C Agarwal, E Bhattacharya, S Kumar (invited paper),

P Aganval, V Tri~athi, S Bose, S K Tripathi and P

Dua (contributed paper)

Ren~..'able Energy Sources at Institute of Engineering and
Technology, Lucknow, ~larch 24-25, 1990,

S C Agarwal (invited paper)

Industrial & Management Programme

OR 90 Operational Research Journals of India - Annual
meeting held in Delhi 14-16 December 90, Chaired a session.

A.K. Mittal

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OR 90 Oper.ational Research Journals of India - Annual meet illl~ he 1 <.I
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R.R.K. Sharma

Advanced Centre for ~bterials Sciences

Annual gene ra 1 meeting of ~tater. Res. See. of India, NPL,
l'~:e\v Delhi - Feb. 1991,

D. Bahacur presented a contributed paper

Se!: lir~.3r on gLasses and cer.lmics f8:- electronic applications
~larch 1991. CGCRI, Calcutta in\it2d talk by

D. Bahacur

Mbtrcrnls Science Programme

Th i. re l n t e :-;l <l t i. on <l L S Y m P () s i. u :.l a n l~ l t r a L a r g e S c a l e
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~eact:....ity of Inorganic Comr:ounds, I IT) Kanpur, Dec. 26-28,
19SJ
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K.:1. Ra~ aOO Jitendra Kumar presented an invited
paper

Centre for Laser Technology

Nat Sym Photoscience April 4~7, 1990, Nainital

H.D. Bist, K.K. Sharma, R.K. Thareja

Laser Chemistry & Phys. Workshop, May 19 - June 1, 1991,
Dalian, China

H.D. Bist

Int. Workshop on Lasers and its Appl. Nov. 12-30, 1990, Indore

R.K. Thareja

Int. Conf. on Quantum Optics, Jan, 1991, Hyderabad

G. Ravindra Kumar, Bipin Bihari, R.S. Gurjar

Training College on Lasers & Optical Fibres, Jan. 21 to Feb.
15, 1991, ICTP Trieste, Italy,

Bansi Lal

Winter College on Ultrafast Phenomena Feb 18 to March 8, 1991, ICTP,
Trieste, Italy

Bansi Lal

SPONSORED RESEARCH PROJECTS

Aerospace Engineering

Solution of three Dimensional Steady Transonic Flows over Wings at
Large Angle of Attack; A Panel method, ADA, 1988, Rs.9.90 Lakhs

N.L. Arora

LOA Measurements in Coaxial Jet Flows, ARDB, 1989, Rs.5.97 Lakhs

R.K. Sullery

School of Experimental Flight Mechanics and flight Testing,
MHRD, 1989, Rs.30 Lakhs

N.L. Arora

3m x 2. tm LOh' Speed CI.)sed .Circuit \.Jind Tunnel at IIT
Kanpur, t990, Rs.1.76 Corers

N.L. Arora

Transonic Flo\W' Computations for 3-D Complex Configurations
by an Integral Equations Approach, ARDB, 1991, Rs.9.81 Lakhs

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N.L. Arora

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Influence of En\~ronmental Conditions on Fracture Toughness
of Fibre Composites, ARDB, Rs.2.65

NGR Iyengar & I3. D. Aga nval

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Prepreg ~!achine - Design, Fabrication & Testing ARDB, 89-91,
Rs.7.0S lakhs

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t\GR Iyengar, Prashant Kumar and B.D. Agan,:al

Design of Sand~ich paneLs with Composite Fae Skin ADA,
Rs.1.026 Lakhs

N.G.K. Iyengar & S. KamLe

Reflection and Transmission of FlexuraL l-Javo:)S at Joints and
Discontinuities, ARDB, Rs.4.82 lakhs

S. KamLe

Calculation of Quasi-Steady and Unsteady Dau.ping Derivatives
in Pitch of Airfoils and l.Jings by t:he r'fethods of Unified
Similitude. 1991, Rs.1.308 lakhs

K. Ghosh

Chemical Engineering

~fodernization of Computation of Process Control Lab., MHRD,
1987, Rs.20 Lakhs

D.N. Saraf

Modernisation of Chemical Engg. Lab. Trg. in Instrumentation
Design of Modern Experimental, IHRD, 1989, Rs.20 Lakhs
Anil Kumar

Reliability Engineering, IHRD, 1989, Rs.8 Lakhs
S. Narsimhan

Reduction of CO₂ formation during Naptha Pyrolysis, DST,
1989, Rs.6.97 Lakhs
D. Kunzru

Polymer Interactions in Dept. of Chemical Engg., DST. 1990.
Rs.15 lakhs
Anil Kumar

Olefin Triage

Preparation of Polyethylene Oxide by Reversible Ring-Opening Polymerization
of Ethylene Oxide, IHRD, 1989, Rs. 1.2 Lakhs
S.K. Debnath

Stability of Peroxidase in Horse Radish
Peroxidase: A Synthetic Approach
Rs. 1.14 lakhs
S.K. Debnath

Probe into the Structure of the Active Site of Binuclear
Iron Centers in Hemoglobin: A Synthetic Analogue Approach,
DST, 1989-91. Rs.1.14 Lakhs
R.N. Mukherjee

Binuclear Iron Centers in Biology
113T, 1989-92, Rs.5.4 lakhs
Modern L Compound Studies,
R.N. Mukherjee

1' Chemical Dynamics and Laser Spectroscopy, IISAIID, 1986, Rs.5 lakhs

N. Sathyamurthy

Fractals, Kinematics and Complex Formation, CSIR, 1990,
Rs.0.40 lakhs

N. Sathyamurthy

Reaction Dynamics, INSA, 1989, Rs.0.27 lakhs

N. Sathyamurthy

Civil Engineering

Modernisation of Structural Engg. Lab.) ~1HRD, 1987, Rs. 20 Lakhs

S.K. Jain

Development of Sof~ware and Data Base on Environmental Engg., MHRD, 1988,
Rs. 19.75 Lakhs

Vinod Tare

~1odernisation of Civil Engg. Lab.) ~1HRD, 1989, Rs.20 Lakhs

K. Subramanya

Earth SC./Engg. Geology Lab. Geo-Technical Engg. Lab.
Hydraulics Lab. Sur , ~!HRD) 1990, Rs.20 Lakhs

K. Subramanyan

Computer System Peripherals, ~1HRD) 1991, Rs.10 Lakhs

S. Ramaseshan

Computer Science & Engg.

Artificial Intelligence, IIR, 1988. Rs.28 Lakhs

K. Sangal

Library Automation CCE 1989, Rs.12.50 lakhs

T.V. Prabhakar

Automation of Control Science
Lakhs

1990 Rs.20

R. Iyer

Artificial Intelligence Processing Using Artificial Intelligence Tech., IIR, 1991. Rs. 10 Lakhs

Computer Science

Department, DOE.

R. S. Saha

Electrical Engineering

Department

Processing,

DOE

.....

IIR, 1983. Rs. 12, 00 Lakhs

R. B. Das

Research Development and Training in HVDC Transmission Tech., DOE, 1986, Rs.22.55 Lakhs

P. K. Kalra

Telematics, NHRD, 1986, Rs. 14 Lakhs

V. Sinha

Education Technology, NHRD, 1986, Rs. 35 Lakhs

Vijay Gupta

Investigation of Ultrathin Insulating Layers and Si-SiO₂
Interface for Superconducting NIOS VLSI, DOE~ 1987, Rs.
19.91 Lakhs

S. Kar

Grant in Aid to IIT/K for Imparting Specialised Training to
the Engineer of Door Darshan, IITB, 1987, Rs. 78 Lakhs

P.K. Chatterjee

Instructional Lab. of Elect. Engg. Dept., NHRD, 1988, Rs. 20
Lakhs

P.K. Chatterjee

Anti-ole Compatible Teletext System for Indian Script, DOE,
1988, Rs. 12.67 Lakhs

V. Sinha

High Throughput Digital Signal Processing Structures for
Image Understanding Systems, DRDO, 1988, Rs. 20.52 Lakhs

M.U. Siddique

Microprocessor Applications, NHRD, 1991, Rs. 10 Lakhs

R. N. Biswas

Humanities & Social Sciences

Modernisation of the Language Lab., MHRD, 1988, Rs. 15 Lakhs

S.K. Aithal & P. Sah

.....
Nodemisation of HSS Lab., f1HRD! 1989, Rs.10 Lakhs

N.K. Sharma

Foundations of Indian Logic & Linguistics, DST, 1991,
Rs.10.27 Lakhs

B.N. Patnaik

Central Design Lab. Facility in the Field of Design and
Aesthetic Courses, ~~, 1989, Rs.5.00 lakhs

A. Rav

Aspects of Brain-Drain : A Study Based on IIT Kanpur
Graduates-Sponsored by DST, June, 1990, Rs.3.4 lakhs

N.K. Sharma

QIP Project on Scenarios and the Reshaping of India's Future

P.N. Rastogi

Mathematics

Water Pollution and its effects on ecosystem, CSIR, 1991,
Rs. 87,800

J.B. Shukla

Mechanical Engineering

Modernisation of Lab Automation in tech. Engg. Dept., MHRD,
1987, Rs.20 Lakhs

M.M. Oberoi

Computer Aided Manufacturing, fVJHRD, '1987, Rs. 20 Lakhs

Kripa Shanker

Robotics, IHRD, 1987, Rs. 50 Lakhs

A.K. Nallik

Fatigue Behaviour of Advance Composites for Air Craft Structures with Emphasis on Damage Identification and Characterization, ARDB, 1987, Rs.18 Lakhs

B.D. Aganwal

Non Destructive Examination of Notched Composites in Fracture and Impact Damaged Specimens using Ironic and AE Techniques, ARDB, 1989, Rs.10.70 Lakhs

N.N. Kishore

Study of Dynamic Fracture of Composite Materials. NSF, Rs. 11.19 lakhs

K. Ramesh

Structural Analysis of the Structure and Design of a Bridge. Engg., IHRD, 1990, Rs. 20 Lakhs

T. Sundararajan

Software Development of an expert system for Computer Aided Design, ADA, 1991, Rs. 4.00 Lakhs

S.C. Dhande

Metallurgical Engineering

Modernisation of materials Characterisation Facility, MHRD, 1987, Rs.20 Lakhs

R.C. Sharma

Specialised Training Programme in Applied Mathematical Modeling, IHRD, 1988, Rs. 20 Lakhs

B. Dev & N. Chakraborty

Silicon Reduction Studies in a Blast Furnace, MIIS, 1989, Rs.7 Lakhs

N.K. Batra

Mathematical Modelling of continuous casting of Steel Sheets, IIS, 1989, Rs. 6.29 Lakhs

S.P. Mehrotra

Some Fundamental Studies of continuous casting of Steel, IIS, 1989, Rs. 11.89 Lakhs

A. Ghosh

Modernisation of Metall. Engg. Lab., NHRD, 1989, Rs.20 Lakhs

N.K. Batra

Physics

High Temperature Superconductivity through Raman Structure, OST, 1988, Rs.6.24 lakhs

H.D. Bist

Physics and Application of High T_c Superconductors, OST, 1988, Rs.9.19 lakhs

A. K. Chakravarty

Study of High T_c Superconducting Materials by Ion Backscattering Channeling, OST, 1988, Rs.10.4 lakhs

R.M. Singru

On Studying of Phase Recombination Laser, OST, 1988, Rs.16.78 lakhs

R.K. Thareja

Characterization of the Electronic Structure of Disordered Alloys, LST, 1990, Rs. 15.81 lakhs

R.N. Singru

Electronic Properties of Amorphous Silicon and its Alloys, DST, 1991, Rs.31.44 lakhs

S.C. Aganval

Industrial & Management Engineering

National Technical Information System, NHRD, 1984, Rs. 1.89 lakhs (yearly grant)

Kripa Shanker

Computer-Aided Manufacturing, NHRD, 1987, Rs. 20.0 lakhs

Kripa Shanker

Computer-Aided Process Planning and Computer-Aided Tool Inventory Systems, ADA Bangalore, 1988, Rs. 6.0 lakhs.

Kripa Shanker

System Optimization Laboratory Modernization, NHRD, 1987, Rs. 20.00 lakhs

Kripa Shanker

Strengthening Activities in the Area of Ergonomics, NHRD, 1988, Rs. 20.00 lakhs.

J.L. Batra

Development of Teaching Aids in Computer-Integrated Manufacturing Systems, NHRD, 1990, Rs. 12.0 lakhs

Kripa Shanker

Development of Laboratories for the Office of the Future,
~IHRD, 1991, Rs. 15.00 lakhs

S Sadagopan

Development of Infrastructural Facilities for Training and
Research in Reliability Engineering, ~~, 1991, Rs 10.00
lakhs .

Tapan P Bagchi

Aspects of Brain Drain Graduates,
DST A Study based on IIT Kanpur

A P Sinha

Laser Technology

Laser Technology, ~IHRD, 1985, Rs.12.40 lakhs

K.K. Sharma

Setting Up of High Resolution Spectroscopy Facility, OST,
1987, Rs.37.70 lakhs ~

k.K. Sharma

Laser Technology and Fibres Optics, ~IHRD, 1988, Rs.25.00
lakhs

K.K. Sharma

Laser and Optical Science and Technology, MHRD, 1989,
Rs.20.00 lakhs

K.K. Sharma

Advance Centre for Materials Science

Development of BSO crystals for optical modulators by DRDO

K.V. Rao, S. Gupta and K.P. Gupta

Physics and applications of high Tc Superconductors
sponsored by DST,

A. K. Jajumdar, K. P. Gupta and D. Bahadur

Development of hexaferrite based glass ceramics for
magnetic recording applications sponsored by CSIR

D. Bahadur

Electronic properties of quasicrystals sponsored by DST

D. Bahadur

Spectroscopy Investigation with Short Laser Pulses, NHRD, 1991,
Rs.11.00 lakhs

K.K. Sharma

Materials Science Programme

Instrumentation Laboratory of Material Science Programme, NHRD, 1988,
Rs. 20.00 lakhs

Jitendra Kumar

Development of facilities for Preparation & Characterisation of Opto-
Electronic Ceramics, NHRD, 1991, Rs.18 Lakhs

D. C. Agarwal

Synthesis & Characterisation of High Temperature
Superconductors, NHRD, 1991, Rs.8.00
lakhs

Jitendra Kumar

Fibres of Zirconics and Ceramics, DAE, 1991, Rs.1.51 Lakhs

D. C. Agarwal

Computer Aided Design

Computer Aided Design Programme, DOE, 1984, Rs.90 lacs

B. Sahay

CONSULTANCY PROJECTS

Aerospace Engineering

Experimental Investigations on Internal Flows in Curved Diffusers, ADA, 1989-91, Rs.1.22 lakhs

R.K. Sullvery

Aircraft Response to Runway Roughness and Optimal Antiskin Braking during Landing, ADA, 1989-91, Rs.1.30 lakhs

D. Yadav and N.G.R. Iyengar

Air Intake Studies, ADA, 1990-91, Rs.1.68 lakhs

V. Gupta and N.L. Arora

Model Test for RCC Multiflex Chimney at Neyveli Thermal Power Station, DVC, 1990-91, Rs.0.70 lakhs

D. Yadav, A.K. Gupta, P. Dayaratnam and S.K. Jain

Aerodynamic Design of Ceiling Fan Blades, AEI, 1990-91, Rs.0.44 lakhs

R
K. Sullvery

Chemical Engineering

Feasibility Study in Nini -Starch Plant in U. P., Council of Science & Technology, V.P., Lucknow, 1990, Rs.25,000

J.K. Gehlawat

In Linked Distillation Column such as then used in
Series, Vittal Scientific Research Foundation,
Bangalore, 1990, Rs. 1 Lakh

D.N. Saraf

Quality Upgradation of Detergents & Acid, Standard Surfatanants, ltd., Kanpur,
1991, Rs. 30,000

J. K' Gehlat

Development of Data, Engineers India Ltd., 1991, Rs.50,000

S. Narasimhan

To make modification to the aluminium anodizing process so as
to reduce emission of sulphuric acid, OEF, 1990, Rs.0.10
lakhs

A. Sharma and S. Narasimhan

Civil Engineering

Feasibility of Treatment Plant Report for ETP for Sagar Industries Co. Ltd.,
Kanpur, 1990, Rs. 1000

C. Venkateshwar

Design of Structure of Jagdishpur (Civil) IGF & Co. Ltd.,
Jagdishpur, 1990, Rs. 1000

A.S.R. Sai

Stability of Retorts, Chief Engineer, Nagar Palika,
Lucknow, 1990, Rs.9325

A.S.R. Sai

Evaluation of Structure safety of Res Reactor Foundation,
Nager (Civil) IGF & Co. Ltd.,- Jagdishpur, 1990, Rs.6000

A.S.R. Sai

Structural Design of Roof of Auditorium, Ex. Engineer, U.P. Irrigation, Lucknow, 1990, Rs.9000

P. Davaratnam

Subsoil Investigation at Bharthana, D.O. U.P. Krishi Utpadan Mandi Parishad, Kanpur, 1990, Rs.45,000

Yudhbir

Design of Concrete Mixes, Simplex Cone rete Piles Iroia (P) Ltd., 1990, Rs.7000

S.K. Chakrabarti

Analysis of Test Data at Faizabad, Ex. Engineer Food Storage Divn. CI\vd, Kanpur, 1990, Rs.6000

P.K. Basudhar

Subsoil Investigation at faizabad, Ex. Engineer Food Storage Divn., Cn'ill, Kanpur, 1990, Rs.24,800

P.K. Basudhar

Subsoil Investigation at the site of Ansal Enclave at Kanpur, Ansal Housing & Finance & Leasing Co. Ltd., Kanpur, 1990, Rs.3~,800

M.R. Nadhav

Analysis of Test Data Ansal Enclave at Kanpur, Ansal Housing & Finance. & Leasing Co. Ltd., Kanpur, 1990, Rs.7,500,

M.R. Nadhav

Counter Mapping, Unchahar (Survey for Ash Pond), Chief Manager, 1990, Rs.1,80,000

K.K. Rampal

~ Suitability of Mortars, LOA, Lucknow, 1990, Rs.6000

A.S.R. Sai

~I<lgnet(\te 11.uric Fie ld Study in Decon Trap Region, ONCC, 1988,
Rs.49,000

R.P. Singh

Checking of Sturectural Design of DFDA Building, AEI Village
Engg. Services, Nathura, 1990, Rs. 9,500

P. Dayaratnam

Design of Concrete ~lixes, NBCC Ltd., Kanpur, 1990, Rs.11,000
S.K. Chakrabarti

Stuch' of Subsoil Characteristics at the site of OH \water
Tanl< ae Fatehgarh, Asstt. Garrison Engineer, Fatehgarh,
1990, Rs. 10000

H.R. rladhav

,\n.JLysLs Ol Ceotcchnic.Jl Dota, Asstt. Corrison Engineer, fatehg2!""h, 1990,
Rs.3~000

t.t. R. ~1.Jc!hav

Checkin~ of Structuf.Jl Design of Han~e; & Anneke Building, Sekha r Tubes &
Sect iens Ltd., Ne'.v De lhi ~ 1990, Rs. 6,000

A.S.R. Sai

Structural Design of Dinapur Services, Ganga Pollution Control Unit,
Varanasi, 1990, Rs.10,000

A.S.R. Sai

Geological Studies at rISCO RC1ipur Site, Envirotech
Consultants, Ne~.; Delhi, 1990, Rs.S,000

B.C. Roy

Testing of Soil Sample, Asstt. Engineer Kanpur Central Sub
Divn. IV, CP\VD, Kanpur, Rs.48,000

P.K. Basudhar

Subsoil Investigation at site of OH Tank at Etawah, Ex.
Engineer, VIII Divn, V.P. Jal Nigam, Eta\vah, 1990, Rs.48,000

P.K. Basudhar

Analysis of Test Data & Recommendations Reg. OH Tank sites ,in Eta\vah,
Ex. Engineer, VIII Divn. D.P. Jal Nigam, Eta\vah,
Rs.12,000

P.K. Basudhar

Study of Sub soil character instics at site of OH Tanks (six
sites) in Orai (Jalaun), Ex. Engineer, Orai Divn., U.P. Jal
Nigam, Jalaun, 1990, Rs.36,000

P.K. Basudhar

Analysis of Test Data & Reccmmendaticns Reg. SBC for OH Tank
Sites, Ex. Engineer, Orai Divn. UP Jal Nigam, Jalaun,
Rs.1990, Rs.9,000

P.K. Basudhar

NUT of Foundation, t-laooer (Civil) NTPC Ltd., Shaktinagar,
1990" Rs.4000

A.S.R. Sai

Evaluation of FOI.II1dation Structure. ~lanager (Civil) NTPC
Ltd., Shaktinagar, 1990, Rs.6000

A.S.R. Sai

Design of Concrete Mix, Larson & Toubro Ltd., Shaktinagar,
1990, R~.4,600

S.K. Chakraborti

Fabrication of Antenna Shield for Antarctica, National
Physics Lab., New Delhi, 1990, Rs.35,000

NS/K Rao

Design of Solar Antenna Shield for Antarctica, 1990,
Rs.25,000

NS/1/Rao

Foundation Design for In-get Stipperd, G-fField Gun Factory,
Kanpur, 1990, Rs .15 ,000

ASR Sai

Structural Design of 900 Kt OH Water Tank Ex. Engineer, UP
CP Jal Nigam, Farrukhabad, 1990, Rs.9~500

P. Dayaratnam

Study of Subsoil Characteristics at CH Tank Site, Ex.

Construction Division, CP Jal Nigam, Kannauj.

S. Chandrasekhar & P.K. Basudhar

Analysis of Test Data & Recommendations Reg. bearing
capacity for OH Tank sites, Ex. Engineer, Construction Divn,
CP Jal Nigam, Kannauj, Rs. 10,000

S. Chandra & P.K. Basudhar

Foundation Design, BIHEL, Hyderabad, 1990, Rs.3,000

P.K. Basudhar

Structural Safety of GDA Multi Storey Complex, Chief
Engineer GDA, Ghaziabad, 1990, Rs.1,86,000

P. Dayaratnam

Feasibility study of vertical extension of three storey R.C. frame building, Bhagwan Industries Ltd., Ashbagh, Lucknow, 1990, Rs.16,000

S.K. Jain

Structural Design of Telephone Exchange Building at Denradun, Supdt. Engineer. Telecom Civil Circle Dept. of Telecommunication. Lucknow, 1990, Rs:65,000

S.K. Jain

Checking of Design of Storm Water Drains for Sharda Nagar, Lucknow, I.D.A, Lucknow, 1990, Rs.40,000

S. Ramaseshan

Feasibility study of vertical extension of Tele. Exchange Building at Saharanpur, Supt. Engineer of Telecommunication~ Civil Circle, Lucknow, 1990, Rs.22,000

S.K. Jain

Design of ROC Foundation, Mohan Steels, Copper Ganj, Kanpur, 1991, Rs.5,000

P. Dayaratnam

Design of Concrete Mix, L&T Ltd., Shaktinagar, 1991, Rs.4,000

S.K. Chakrabarti

Rehabitation of OH Tank, KESA, Kanpur, 1991, Rs.8,000

ASR Sai

Design of Open Drain, Nagar Mahapalika, Lucknow, 1991, Rs.12,500

ASR Sai

Design Check of: Oil Tank, Ex. Engineer, UP Jal Nigam, Etawah, 1991.
Rs. 5,000

A.S.R. Sai

Well Logging of Lakhanpur, Tube Well 11 Associate, Kanpur, 1991,
Rs.10,000

R.P. Singh

Analysis of Test Data ~ Recommendation, Ex. Engineer, CP Jal Nigam,
Fatehgarh, 1991, P.K. Basudhar, Rs.~0,000

P.K. Basudhar

Study of Characterisation of OH Tank at Kalyanpur, Ex. Engineer UP Jal
Nigam, Fatehgarh, 1991, Rs.16,000

P.K. Basudhar

Checking of Structural Design Study, Ghaziabad Development Authority,
1991, Rs. 3.60,000

P. Dasgupta

Electrical Engineering

Preparation of Local Area Network Plan for ADA-LCA Project, FDA,
Bangalore, 1990, Rs.12,000

K.R. Srivastava

Feasibility Study for Indigenous Manufacturer of X-band Radar, Servo
Electronics, New Delhi, 1990, Rs. 2,700

Dr. Sachidanand

Testing of CKT Breakers, Bureau of India Standards, 1990, Rs.2,500,

L.P. Singh

Evaluation of System FP & Harmonics, BHEL, Bangalore, 1990,
Rs.2,500

G. K. Dube

Evaluation of System FP & Harmonics, BHEL, Bangalore, 1991,
Rs.2,700

G. K. Dube

Analysis Harmonic Content of Electric Power Supply System,
~bhan Steel Ltd., Kanpur, 1991, Rs.7,500

S.C. Srivastava

Humanities & Social Science

Socio-Economic Study of the Gas based power, NTPC, New
Delhi, 1991, Rs.67,000

B. Rath

Area Specific Approach. Population Centre

A.K. Sharma

Mechanical Engineering

Performance Study of a motor under various Environmental condition,
Som Engineering Corpn., Kanpur, 1990, Rs.10,000

Keshav Kant

Metallurgical Engineering

Internal soundness of steel samples, Precitex Components 'Mfg. Co'
Kanpur, 1990, Rs.300

M.L. Vaidya

Failure Investigation of Thermo Well Tubes & Cracked StL'Cs,
Indo-Gulf Fertilizer & Chem. Corpn. Ltd. - Sul t~np11r, 1990,
Rs . J , 500

~I. L. Vaidya

Picking Inhibitors for Cu-Ni-Tuees. NIPC, Ne\v Delhi, 1990,
Rs.10,000

Raj Narain

Failure Analysis of Ammonia Storage Tank, ~1/s Iron Products
Ltd., Luckno\v, 1991, Rs. 3000

rl. L. Vaidva

HIGH LEVEL SU-r-1ER INIXJSTRIJL PROCRA"r-1E

Chemic31 Engineering

Dr. S. >Jarasi:r.nan \vi11 be sr:erclir.~ six \;eeks (June 3-July
15) in ELL, R&D Centre at Gurgaon.

AWARDS AND trnXJRS

Chemical Engineering (P~rticipation in High Level
Committees)

r'l'ember of an E:<pert Group on SLIgar Industry, TIFAC, Dept.
6f Science & Technology, New Delhi

J. K. Geh la\v at

Member of a Committee on Technology Assessment and
Technology Fore-casting, TIFAC, Dept. of Science &
Technology, New Delhi

J.K. Gehlawat

~- Evaluation of System FP & Harmonics, BHEL, Bangalore, 1990,
Rs.2,500

. G.K. Dube

Evaluation of System FP & Harmonics, BHEL, Bangalore, 1991,
Rs.2,700

G. K. Dube

Analysis Harmonic Content of Electric Power Supply System, ~bhan
Steel Ltd., Kanpur, 1991, Rs.7,500

S.C. Srivastava

Humanities & Social Science

Socio-Economic Study of the Gas based power, NTPC, New Delhi, 1991,
Rs.67,000

B. Rath

Area Specific Approach. Population Centre

A.K. Sharma

Mechanical Engineering

Performance Study of a motor under various Environmental condition,
Som Engineering Corpn., Kanpur, 1990, Rs.10,000

Keshav Kant

Metallurgical Engineering

Internal soundness of steel samples, Precitex Components 'Mfg. Co"
Kanpur, 1990, Rs.300

M.L. Vaidya

Member, RAC for ChE, IPCL Vadodara, 1984-Continued

S.K. Gupta

Member, National Advisory Committee, Polymer 91 at NCL Pune,
1-4 Jan., 1991'

S.K. Gupta

Member Scientific Advisory Committee, Petrochemicals,
Ministry of Chemicals & Petrochemicals, New Delhi

S. Bhatia

Member, Board of Studies in Engg. & Technology, University
of Rajasthan, Jaipur

S. Bhatia

Chemistry

Khosla Annual Research Award

B.D. Gupta',

Rev. Fr. L.N. Yeddanapalli Memorial Award in Physical
Chemistry, Indian Chemical Society

N. Sathyamurthy

Fellow) Indian Academy of Sciences, Bangalore

N. Sathyamurthy

S.S. Bhatnagar Prize in Chemical Sciences, CSIR

N. Sathyamurthy

Humanities & Social Sciences

Offered an Academic Membership by the Academy of Management,
US,

M.A. Ansari

Elected member of the International Union for the Scientific Study of
Population, Belgium

A.K. Sharma

