

Dr. D. P. Kothari

Ph.D., FNAE, FNASc,
Fellow-IEEE, LMISTE,

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Hon-Fellow ISTE, Fellow IETE. $\frac{1}{4}$ en.wikipedia.org/wiki/D.P.Kothari

"Arise, awake, and stop not till the goal is reached"
- Swami Vivekananda

Personal Details

Date of Birth 7 October 1944

Languages English, Hindi, Marathi, French and German
Known

Education

1967 BE (Electrical), BITS-PILANI, Rajasthan, 1st Division.

1969 ME (Power Systems), BITS-PILANI, Rajasthan, 1st Division.

1976 Ph.D, BITS-PILANI, Rajasthan.

Present Position & Official Address

Director Research & Senior Professor, S.B Jain Institute of Technology ,
Management and Research , Nagpur.

Teaching/Research Experience

1. Lecturer, SGSITS, Indore, Sept. '69 - Oct. '69.
2. Lecturer, BITS, Pilani, Oct. '69 - July '77.
3. Asst. Prof., REC, Kurukshetra, July '77 - Nov. '77.
4. Asst. Prof., CES, IIT Delhi, Nov. '77 - Dec. '81.
5. Visiting Fellow, EE Dept., RMIT, Melbourne, Australia Mar. '82 - Jan. '83 and Mar. '89 - Dec. '89 (on leave from IITD).
6. Asso. Prof., CES, IIT Delhi, Jan. '82 - Dec. '84.
7. Prof. and Head, Center for Energy Studies, IIT Delhi, Jan. '95 - Aug. '97.
8. Principal, Visvesvaraya Regional College of Engineering, Nagpur, Sept. '97 - Aug. '98 (on leave from I.I.T. Delhi).

9. Professor of Electrical Engg. Center for Energy Studies, IIT Delhi, Jan. '85 - Dec. '07.

10. Senior Professor / VC / Advisor to Chancellor, VIT University, Vellore Dec. '07 - Dec. '10.
11. Visiting Prof., School of Electrical Engineering, VITU, Vellore since Jan. '11.
12. Senior Prof. and Director General, VITS, Indore, Jan. '11 - Dec. '11.
13. Senior Prof. and Director General, RGI, Nagpur, Jan. '12 - Oct. '12.
14. Senior Prof. and Director General, JBIT, Hyderabad, Oct. '12 - May '13.
15. Senior Prof. and Director Research, MVSR Engineering College, June '13 - Apr. '14.
16. Senior Prof. and Director Research, Wainganga College of Engineering and Management, May '14 - Oct. '14.
17. Senior Prof. and Director Research, Gaikwad Patil Group of Institutions, Nagpur.
18. Senior Prof. and Director Research, S B Jain College of Engineering & Technology, Nagpur.
19. Senior Prof. and Dean (R & D), J D College of Engineering and Management, Nagpur.

———— Subjects taught

○ Undergraduate Level

1. Electric Machines
2. Transmission and Distribution of Electric Power
3. Power System Analysis
4. Basic Electrical Engineering
5. Optimization Techniques
6. Industrial Application of Motors/Illumination
7. Power System Economics
8. Circuit Theory

○ Postgraduate Level

1. Power System Dynamics and Control
2. Economic Operation of Power Systems
3. Advanced Power Systems I
4. Advanced Power Systems II
5. Advanced Energy Studies
6. Energy Conservation
7. Computer Methods in Power System Analysis

———— Specialization and Research Areas of Interest

- Electrical Power System Engineering with special interest in System Analysis, Load Flow, Economic Load Dispatch, Computer Control and system Optimization, Reliability, Water Management, Stability, Energy Conservation, Minimum Emission Dispatch, Security and Contingency Analysis, Unit Commitment, Maintenance scheduling, Planning and Management of Rural Energy Systems, Urban Energy Planning, Conventional & renewable energy sources.

———— Research Guidance

○ **PhD Thesis**

1. Sensitivity Analysis of Multi-conductor System (1982) Parmod Kumar.
2. On Load Flow Methods and Dynamic Equivalents for Integrated Power Systems (1984) D.L. Shenoy.
3. Stochastic Optimal Power Generation Scheduling (1987) S.C. Parti.
4. On Some Aspects of Load Flow and Optimal Load Flow of Integrated Power Systems (1987) S.C. Srivastava.
5. On some Aspects of Optimal Real and Reactive Power Dispatch for Integrated Power Systems (1987) K.S. Lingamurthy.
6. Investment Planning in Electric Power Systems (1988) C.Thangaraj.
7. Planning and Management of Rural Energy Systems (1988) C.Subhash.
8. Security Constrained Power System Optimization (1990) L.D. Arya.
9. On some Aspects of Automatic Generation Control of Thermal and Hydro-Thermal Power Systems (1991), Debapriya Das.
10. Dynamics of Urban Energy Economy System with Particular Reference to the City of Jaipur (1993), D.K. Jain.
11. Economic Dispatch studies on Electric Power Systems (1995), J.S. Dhillon.
12. On Some Aspects of Power Security Studies (1997) - S.C. Chaube.
13. On Some Aspects of Thermal Generating Unit Commitment (1997) - Subir sen.
14. Optimal Maintenance Scheduling of Generating Units in a Power System (1998) - Aijaz Ahmad.
15. Reactive Power Compensation, Load Balancing and Harmonic Elimination (1998) – Anuradha.
16. Analysis, Design and Performance Studies of PV Powered Cold Chain System (1998) - N. Debnath.
17. Voltage Security Analysis and Enhancement(2000) - Shekhar Kelapure.
18. Power System Transient Stability Enhancement(2002)– R. Patel.
19. Reactive Power Compensation of Hybrid Electrical Energy System (2002) - R.C. Bansal.
20. Consumer Navigation Behaviour in Hypermedia Computer Mediated Environments in the Indian Context (2003)– Anshu Saxena.
21. Analysis and Control of Improved Power Quality Power Converters (2004) – Ashish Pandey.
22. Economic and Emission Dispatch (2004)– Y S Brar.
23. Drag Type Multi-bladed VAWT for Power Generation (2004)- Shikha.
24. An advanced control of Micro Hydro Power Plants (2007) - Himani Goyal.
25. Stochastic Economic Dispatch of Electric Power System with Conflicting Objectives – (2008) Satbir Bath.
26. Improvement of Power System Transient Stability By Regulating Steam Flow and Using Braking Resistor– (2009) Sunil Bhat.
27. Multi-Objective Generation Dispatch Studies on Electric Power System– (2010) Jarnail Singh Dhillon.
28. Performance Evaluation of Bio fuels in cooking stove and in Internal Combustion (IC) engines-(2010) R.Natrajan.
29. Power Quality enhancement using custom power devices– (2010) P .Jayaprakash.
30. Intelligent Models of Solar irradiance for Large Scale Sustainable Power Generation (2010), M.Rizwan.

31. Substation Automation Design and Configuration using IEC 61850 devices, (2011), Anupama Prakash.
32. The influence of key socio cultural factors in the management of large projects in China – A comparative study with India (2012) – Kevin Major.
33. “Investigations on techno-economic aspects of Solar Photovoltaic system in India”, (2012). Mahendra Lalwani.
34. “Effective utilization of unified power quality conditioner for interconnecting PV modules with grid using power angle control method”, (2013). K. Palanisamy.
35. “Investigations on Power Electronic Interface Model for real time simulations of fully fed induction machine system, (2013), S Umashankar.
36. “A Solution to unit Commitment Problem using Classical and Stochastic approach,(2013) , B Sarvanan.
37. “Certain Investigation and Solution Methodologies for Deregulated Electricity Market, (2013), Prabhakar Karthikeyan S.
38. “Integrating soft computing techniques in Generation dispatch under Competitive energy Market- C.Rani.
39. “Power Performance of Multi-Threaded, Multi Core Processor: Analysis, Optimisation & Simulation”. - (2014) Ms.Vijaya Laxmi.
40. “Modeling and Power Management Strategy for Grid Connected Hybrid PV/Wind /FC/UC Electrlyzer/Hydro Power Generation System” (2014) Ms. P.Vijayapriya.
41. “Integration /Analysis of Green and conventional Electricity Generation ” (2014) – Pushpendra Singh.
42. “State Space based Load Frequency Control of Multi Area Power System ” (2014) - KPS Paramar.
43. “Multi-objective hydrothermal scheduling based on heuristic algorithms”(2014) – Nitin Narang.
44. Hybrid Search Method for Optimization in Real Parameter Space(2015) – Nirbhowjap Singh.
45. Economic Operation of Power systems(2016) – Harpal singh.
46. Design and development of self sustainable and reliant hybrid energy system model for rural villages (2017) – Ashif Siddiqui.
47. Optimal Inverter operation (2017) – Rahul Agrawal.
48. Biomass (2018) - Gagandeep Kaur.
49. High speed computer systems-Vishwakarma.
50. Design and Prototypic Implementation of Swarm Intelligence Based Reasoning Tool for Perceiving Semantic Web-Deepika Choudhary.
51. Substation Operation and Optimization-K K Jain.
52. Reactive Power Control of single phase photovoltaic system considering grid requirements- Pritee Gotekar
53. Design of intelligent agent architecture operating in wireless sensor networks-Rina Sharma.
54. Reactive power control for single phase photovoltaic system considering grid requirements.

M.Tech Thesis

1. Optimal Hydro Thermal Scheduling and Generating Unit Commitment L.D. Arya, BITS Pilani, 1974.

2. Security Constrained Optimal Thermal Generating Unit Commitment R.K. Mittal, BITS Pilani, 1975
3. Air Pollution Control S.K. Maheshwari, BITS Pilani, 1977.
4. Stochastic Load Flow Studies R.K. Gupta, BITS Pilani, 1977
5. A Study of Hierarchical Control Systems R.S. Dahiya, REC Kurukshetra, 1977.
6. On Problems and Development of High Voltage Direct Current Circuit Breakers S.K. Agarwal (joint guidance), IIT Delhi, 1980.
7. On Economic Load Dispatch of an Interconnected Power System Avdesh Mani (joint guidance), IIT Delhi, 1981.
8. Optimum Reactive Power Schedule in an Interconnected Power System P.K. Sharma (joint guidance), IIT Delhi, 1981.
9. Optimal Maintenance Scheduling of Generation Units S.C. Sher (joint guidance), IIT Delhi, 1981.
10. Microprocessor Based Overcurrent Relay Testing T.K. Mandal and Y. Sharma (joint guidance), IIT Delhi, 1981.
11. On some Aspects of Optimal and Reliable Maintenance Scheduling of Generating Units S.N. Girotra, IIT Delhi, 1984.
12. Optimal Voltage Control in Integrated Power System D.P.R. Rao, (joint guidance), IIT Delhi, 1984.
13. Static Compensators for Reactive Power Control R.M. Dubey (joint Guidance), IIT Delhi, 1985,
14. Static Voltage Control Cdr. R. Mathew, (joint guidance), IIT Delhi, 1986.
15. Minimization of Air Pollution due to Thermal Power Plants R.K. Sharma, IIT Delhi, 1986.
16. Optimal Hydrothermal scheduling and Unit Commitment Ramesh Kumar, (joint supervision), MNREC Allahabad, 1986
17. Energy Planning for Delhi for the year 2000-01: D. Ramababu (joint guidance), IIT Delhi, 1987.
18. Optimum Emission and Economic Dispatch S.K. Gupta, IIT Delhi, 1988.
19. Reactive Power Compensation for Long Distance Radial Transmission Systems. K.G. Upadhyay, 1989.
20. Typology Classification of Areas for Integrated System Energy Planning for Inaccessible Areas Col. K.K. Bhandari (joint guidance), IIT Delhi, 1990.
21. Method for Determining the optimum Size of Stand Alone Photovoltaic Systems and Study of Dynamic Behaviour of Single Phase Distribution Systems with PV Generation H.K. Sharma, (Joint guidance), IIT Delhi, 1991.
22. An expert system approach to unit commitment Aijaz Ahmad, IIT Delhi, 1991.
23. Optimal Hydrothermal Scheduling Navendra Singh, 1992.
24. Optimization for Draft Tube Design for a Crossflow Turbine H. Reddy (joint guidance), IIT Delhi, 1992.
25. An expert system for maintenance rescheduling I.A. Bhat, IIT Delhi, 1993.
26. Economic emission dispatch F.A. Talukdar, IIT Delhi, 1993.
27. Electronic load controller for microhydro power plant A.K. Gupta, IIT Delhi, 1993.
28. Optimal and Reliable generator maintenance scheduling using 01 I P. S.M. Kelapure, IITD, 1994.
29. Optimal U.C. using expert system and ANN Akash Chavan, IITD, 1995.
30. Optimal emission dispatch S.Ashok, IITD, 1995.

31. Maintenance Scheduling using Fuzzy theory - R.K. Tyagi, IITD, 1995.
32. Maintenance Scheduling of Thermal Generating Units - Peeyoosh Gupta, IITD, 1996
33. System Engineering Aspects of Solar Photovoltaics Power Systems - Kshitij Kaushik, IITD, 1996
34. LFC of Stand Alone Wind-diesel-PV Power Systems- Pankaj Sootha (joint guidance), IITD, 1997.
35. LFC of Stand Alone Wind-diesel-biogas Power System - Heera Chhablani (joint guidance), IITD, 1997.
36. Reactive Power optimisation for Distribution System by Fuzzy Modelling – Ravi Joshi (joint guidance) IITD, 1999.
37. Application of ANN to Dynamic Voltage Stability Prediction – P. Mohapatra (joint guidance) IITD, 1999.
38. Study of Harmonics Calculation for Reference Current of SAPF Using Matlab – B.K. Sharma (joint guidance) IITD, 1999.
39. Real Time Power System Monitoring – A.V.S. Ramesh (joint guidance) IITD, 1999.
40. Parameter Monitoring of an Electrical Substation – Puja (joint guidance) IITD, 1999.
41. Probabilistic Load Flow applied to solar energy field - Lokesh Rana (joint guidance with Prof. H.J. Haubrich) IIT Delhi, 2000.
42. Automatic Reactive Power Control of an isolated hybrid Power System – Prohodh Bajpai (joint guidance), IIT Delhi, 2000.
43. Multilevel Inverter and Simulation of three-level inverter and seven-level inverter using matlab for PV applications- D. Kabilan, (joint guidance), IIT Delhi, 2001.
44. Application of Artificial neural networks (ANN) for improvement of transient stability margin, K.H.V. Ganesh, IIT Delhi, 2001.
45. Time domain analysis of a dc-dc boost converter, Jayaprakash P, IIT Delhi, 2003.
46. Energy Savings in Lighting Systems by using Control Devices, Arun Kumar Arora, IIT Delhi, 2004.
47. Power System Stability Analysis in a Deregulated Electric Utility Environment, Y. Mishra, (joint guidance), IIT Delhi, 2005.
48. Design and Implementation of STATCOM for Standalone Applications Employing Self Excited Induction Generator, Sandeep Acharya (joint guidance), IIT Delhi, 2005.
49. Strategic Bidding of Supplier in Competitive Electricity Market, Parul Goyal, IIT Delhi, 2005.
50. A Novel Approach for Eco-friendly and Economic Power Dispatch using Matlab, K.P. Singh Parmar, IITD, 2006.
51. Optimal Generation Scheduling In a Hybrid Autonomous System, P.Venkataraghava, IIT Delhi, 2006.
52. Voltage Stability Constrained Available Transfer Capability, Manoharlal Khatik, IITD, 2006.
53. Assessment Of Vehicular Emissions Due to Compressed Natural Gas (CNG) Implementation In Public and private transport in Delhi , India, Amit Arora, IIT Delhi, 2006.
54. Fuzzy based multiobjective scheduling of hydro thermal systems, Abhishek, 2007.
55. Maintenance Scheduling Of Energy Systems, Vijay Pratap Teegela, 2007.
56. Real time monitoring of thermal power plant using web-based SCADA, Jitender Malik, 2007.
57. Optimal mix of solar, wind and diesel power generation in an isolated remote area, Shakti

Singh, 2007.

58. Intelligent active power filter, M Sivananda, 2007.
59. ST HT scheduling in restructured power market, Santhosh Gawai, 2007.
60. Wind Energy, Siyad ubaid, 2008
61. Bio-hydrogen production studies of the mixed microbial consortia by dark fermentation, Ganesh Deepak G, 2010
62. Design and analysis of solar based kalia power cycle, Neena Showkkathali, 2010
63. Achieving power for non electrified villages in Tamil Nadu using decentralization methods and sustainable solutions, Shailesh Upadhyay, 2010
64. Addressing grass-root energy problems in rural Tamil Nadu with sustainable solutions, Deepak T, 2010
65. Modelling, Design and Testing of SMES. Yogesh D Nagdeve.GSRE, Nagpur, June 2013.
66. Design of asynchronous viterbi decoder using hybrid register exchange method for low power application, Nita kalaskar, 2016.
67. Design and implementation of 64 bit alu for power optimization in quaternary four level using vhdl, Priti Shingane, 2016.
68. Design and implementation of lower power smart motion detector using CMOS sensor, Nishikant Bahekar, 2016.

Industrial Experience

- Chief Coordinator of BITS Practice School, Gwalior Rayon, Nagda from January 1975 June 1975 and guided practice school projects for 3 engineering post graduate students drawn from different disciplines.

Consultancy Work and Sponsored Projects

1. Developed computer program for Optimal HydroThermal Scheduling (1982), Sponsored by BHEL, India, (Consultancy). (INR 3,000)
2. Dynamic Equivalents and their Application for Power System Stability Analysis, Simulation and Load Frequency Controller Design (DST Project Completed, 1985). (INR 3,00,000)
3. Planning of Rural Energy Systems (TERI Project Completed, 1986). (INR 20,000)
4. Electric Machines book writing project sponsored by UGC and NBT (Completed, 1985).
5. Microprocessor Based Static VAR Systems (TCT TSR TSC Type) CSIR Scheme No. 8 (50) 89 EMR II.1990 (INR 5,00,000)
6. Optimum Load of Rajdhani Express : Consultancy Project Sponsored by Railway Board, completed 1994 (INR 3,00,000)
7. Agroclimatic Zones and Energy Planning, Sponsored by Planning Commission, completed, 1995 (INR 50,000)
8. Security constrained Power System Optimization, sponsored by CSIR (22 (0246)/95/EM-RII).1999 (INR 5,00,000)
9. Renewable Energy Education, IREP, 1995. (INR 75,000)
10. Technical Opinion on wind operated Electricity Generators, Flovel Tacke (P) Ltd, 1995. (INR 15,000)
11. TEFR on 50 MW PV power plant in Rajasthan, Sun Source (India) Ltd., consultancy project, consultant, April 1996. (INR 6,00,000)

12. Design and development of SPV modules and Arrays, DST, Co PI, 1996. (INR 6,97,000)
13. UK-India REC Project Consultancy - British Council, May 1996. (INR 30,000)
14. Study of Environmental Issues in the Power Sector - The Bihar Case Study. World Bank Consultancy Project, SCADA, Patna, Chief Consultant (CC.), 96-97. (INR 4,50,000)
15. Integrated Rural Energy Planning for India using IREP Survey Reports(RP00969), MNES, PI, 1997-99. (INR 4,00,000)
16. Continuing Education Programme on Integrated Energy Technology and Management (CWD 4078), MGTTPRPD, New Delhi, 1997. (INR 2,00,000)
17. Voltage Stability Analysis and Enhancement, DST, (1998-2001) Coinvestigator. (INR 10,00,000)
18. Development of Wind Turbine from Low Wind Speeds with Accelerating Nozzles for Irrigation and Electric Power, DST, (1998-2001) Co Principal Investigator. (INR 12,00,000)
19. Development of MBA Program for JMI, Ed-Cil, Consultancy, (2000), 10,000, CC.
20. Energy Audit of Nirula Complex, Consultancy, (2000), 15000, CC.
21. Energy Audit in the British Council Division Building, New Delhi (2001), CC.x. (INR 1,00,000)
22. Energy Audit at Sirifort Auditorium, New Delhi, (2002), 25000, CC.
23. Strengthening the backup power supply at JNU, (2003), 25,000, CC.
24. Energy Audit of British Council Buildings, (2004), 1 Lac, CC.
25. Energy Audit of installations at HUDCO place, (2004), 40k, CC.
26. Development of Syllabus for BTech Energy Course in Universities for North East Region, 10k, Ed.CIL, 2005.
27. Conversion of G.E.C, Raipur into NIT, 30k, Ed.CIL, 2005.
28. Design and Fabrication of Electronic Ballasts for 400 Watts High Intensity Discharge Lamp, 2005.
29. Technical aspects of 'Colour Monitor & AM/FM Radio Receiver with Add-on features such as DVD Player for Car' (AVH), Excel Legal Services, Gurgaon (50k), 2014
30. Review of report on developments of rural energy systems in SAARC countries, energy SAARC centre at Islamabad, Pakistan (500 dollars), 2014.

Membership of Professional Bodies

1. Fellow-IEEE
2. Life Fellow-Institution of Engineers (India)
3. Life Membership and Hon.Fellow - Indian Society for Technical Education
4. Fellow-National Academy of Sciences, Allahabad
5. Fellow-Indian National Academy of Engineering
6. Senior Member-Computer society of India
7. Fellow-IETE

Visits Abroad

1. Visiting Fellow in the Department of Electrical Engineering at RMIT, Melbourne, Australia: March '82 Jan. '83.
2. Visited San Francisco, USA in July '82 to present a paper at the IEEE Summer Power Meeting.
3. Visited Italy in Sept./Oct. '86 to present a paper and chair a session at ASME Conference, also visited ICTP as a Visiting Scientist.
4. Visiting Fellow, Department of Communication and Electrical Engineering at RMIT, University of Melbourne, Australia: March '89-Dec. '89.
5. Visited Hong Kong/Taiwan in Feb/March '91 to deliver a Keynote Address at IASTED Conference Power Hightech, held at Cheng Kung University, Taiwan, Member Int. Program Committee.
6. Visited Purdue University, USA as a Visiting Scientist under Indo-US Exchange Program (CSIR NSF Sponsored) during March/April '92.
7. Visited Melbourne, Australia to present a paper, Chair a session and to deliver a Keynote Address at IInd Int. conf. on Modelling & Simulation organised by Victoria Univ., of Tech., July 12-14, 1993. Member, Int. Program Committee.
8. Visited Kathmandu, Nepal to present a paper, chair a session and to deliver a special lecture at the third International Conference, March 4-7, 1996.
9. Visited BUET, Dhaka, Bangladesh to present a paper, chair a session at the International workshop on "Renewable Energy for poverty alleviation", Oct 21-23, 1997.
10. Visited Melbourne, Australia, to deliver a Keynote Address at 3rd International Conference on Modelling and Simulation, VUT, Oct 29-31, 1997, Member, International Programme Committee.
11. Visited UK from 18.06.1998-27.06.1998 as Principal, VRCE, Nagpur sponsored by British Council Division, under Indo-UK REC project. Visited various universities, professional organisations in London, Manchester and Sheffield.
12. Visited BUET, Dhaka, Bangladesh to present a paper, chair a session at the International workshop on Renewable Energy, Nov. 26-27, 1999.
13. Visited University of Clemson, South Carolina, USA during 13-15 March 2002 to chair a session at PSC-2002.
14. Visited University of Canterbury, Christchurch, New Zealand, from 23 May – 24 June 2002 as a visiting faculty in the Department of Electrical and Computer Engineering.
15. Visited VUT Melbourne, Australia from 11-13 Nov. 2002 to deliver a keynote address at the international conference MS'02.
16. Visited AIT Bangkok Thailand to deliver an invited talk on 14th Nov. 2002.
17. Visited Imperial College, London sponsored by Royal Society, London and DST(India) May-June 2004
18. Visited Paris University, to deliver an invited talk on 2nd June 2004
19. Visited Karlsruhe University & European Institute of Energy, Karlsruhe, Germany and delivered an invited talk on 3rd June 2004.
20. Visited New York to present the paper at IEEE PSCE Conference 2004, October, 2004
21. Visited Tokyo and Kyoto, Japan to attend and present a talk at the conferences organized by JST and STS forum from 11 -17 November, 2004.
22. Visited Washington DC from 20nd May to 22nd May 2005 to attend global PAN-IIT meet

- and visited New York, Chicago, Boston and Montreal (CANADA) from 23rd May to 29th May to attend and interact IIT alumni as IIT Delhi Director
23. Visited Singapore on 6-7 Aug 2005 as a Director I/C, IIT Delhi to receive an award for the IIT System being one of the best 15 Engineering Colleges in Asia.
 24. Visited ICU, Daejeon, South Korea to deliver a key note address at IFUP-ICT, on 12th Oct 2006.
 25. Visited Melbourne, Australia to attend and deliver an invited talk at Sixteenth International AUPEC'06 Conference from 10th to 12th December '06.
 26. Visited Bangkok, Thailand for Technical Cooperation with Assumption University on 13th December 2006.
 27. Visited Lahore, Pakistan, 9th – 12th April 2007, to deliver an invited talk at LUMS and a keynote address at ICEE.2007, Uni of Engg & Tech, Lahore.
 28. Visited Kuala Lumpur, Malaysia on 29th October 2007 to deliver an invited IEEE talk at the SPA University.
 29. Visited Colombo, Sri Lanka from 17th to 23rd August 2008 to attend and delivered Key-note address on “South-South Cooperation for Technology Transfer and Development of Small and Medium Enterprises (SMEs)”.
 30. Visited Dubai, UAE from 10th to 11th October 2008 to attend VITAA UAE Chapter meeting and visit BITS, Pilani, Dubai Campus for future collaboration with VIT.
 31. Visited Muscat, Oman from 12th to 13th October 2008 to present a Key-note address at International Conference on Harnessing Technology (ICHT 2008) and to inaugurate a joint Chemical Engineering Programme with VIT at Caledonian College of Engineering, Muscat.
 32. Visited Changsha, Wuhan, Zhengzhou and Shanghai from 26th March 2009 to 1st April 2009 to meet authorities of partner universities of VIT. Presented a paper and chaired a session in IEEE-Asia-Pacific Power and Energy Engineering Conference (APPEEC) 2009 at Wuhan University, Wuhan, China.
 33. Visited Brisbane, Sydney, Melbourne and Adelaide in Australia and met VCs of Partner Universities; presented key note address at AUPEC 09 (Adelaide) from 20th September to 1st October 2009.
 34. Visited University of A& M University of Texas, Qatar University during 10th-Oct to 15th Oct 2012 and delivered invited talks.
 35. Visited South Africa to deliver a talk at "Smart Grid-Distribution Automation" conference organized by, All Sectors Business Communications during 8-10 April 2013 in Johannesburg (South Africa).
 36. Visited China to deliver an invited talk in the conference organized by APPEEC during 12-14th July 2013 in Beijing, China.
 37. Visited South Africa to discuss collaboration possibilities with Dr Kimberly Battle, Executive Dean of Engineering and the Built Environment, University of Johannesburg, South Africa on 21st Sept 2013.
 38. Visited Melbourne Australia from 28th November to 3rd December to deliver a key note address ISGT Asia / IEEE conference 2016.
 39. Visited Dhaka, Bangladesh from 25th to 28th Sept to deliver key note address at 5th IEEE International Conference at IUB.

———— Laboratory Development

- Static Var System (SVS) Laboratory has been developed in the Centre of Energy Studies, IIT Delhi.

Administrative Experience

1. Director research, S.B. Jain Institute of Technology, Management & Research, Nagpur- Present
2. Hon Adjunct Professor , VNIT , Nagpur Jan 2019 till Jan 2020.
3. Director Research , SBJIMT , Nagpur , Oct 2016 till Dec 2018.
4. Director Research ,Gaikwad Patil Group Of Institutions , Oct 2014 – Sept 2016
5. Director Research ,Wainganga College of Engineering Nagpur, April 2014 – Oct 2014
6. Director Research, MVSR Engineering College, Hyderabad, June 2013 – April 2014.
7. Director General , JBIT , Hyderabad , Oct 2012 – May 2013
8. Director General , Raisonni Group Of Institutions , Nagpur , Jan 2012 – Sept 2012
9. Director General, VGIT, Indore, Jan 2011 to Dec 2011.
10. Vice Chancellor / Advisor to Chancellor, V.I.T University, Vellore, 2007-2010.
11. Director I/c, Indian Institute of Technology, Delhi since 7th April to 31st October 2005.
12. Dy. Director (Admn.) , IIT Delhi ,2003 – 2006
13. Member, The Board of Governors, IIT Delhi, 2001-2003.
14. Principal, Visweshwaraiya Regional College of Engineering, Nagpur from 1.9.1997 to 31.8.1998.
15. Head, Centre for Energy Studies, IIT Delhi from 1.1.1995 to 31.8.97
16. Officiated as Head of the Centre of Energy Studies, several times during 1985 to 1995.
17. Represented the Centre of Energy Studies (CES) in the Board of Postgraduate Studies, IIT Delhi from 1980-82; July '86- March '89.
18. Office Incharge, CES, 1984-89.
19. Secretary, Centre Research Committee, 1983-84.
20. Coordinator, M.Tech/Ph.D Programmes, CES, 1978-81.
21. Member of Grading and Registration Committee, BUGS, IIT Delhi, 1979-80.
22. Coordinator of Core Lab, Electrical Engineering Department, IIT Delhi, 1979-80.
23. Worked as Stores Incharge for the Electrical Energy Systems Group for the year 1979-80.
24. Secretary, Professorial Committee, 1990-92.
25. Member, Advisory Committee for Library, 1992-94.
26. Coordinator, Energy Conservation thrust area project (MHRD), March'95 - August'95.
27. House Master, Jwalamukhi Hostel, IIT Delhi since 1.10.1998.
28. Seminar incharge of Electrical Engineering Department from July '79- Dec. '81.
29. Member, Board of Educational and Research Planning, IIT Delhi, 1 Sept. 2000-31 August 2002.

Other Important Contributions

1. I have personally attended, presented papers and chaired some of the technical sessions at more than 105 national and international conferences.
2. I have been taking an active part since 1977 in the Curriculum Development activities in the Electrical Engineering Department, IIT Delhi & Other institutions.
3. I have been working, as a paper setter, examiner (including Ph.D. theses), expert member of selection committees of several universities in India and abroad.
4. Coordinated jointly an ISTE Summer School on, "Computer Methods in Power System

Analysis", at Pantnagar, July'80.

5. Joint Convener of National Workshop on "Energy Technology Characteristics for India", May 1986, IIT Delhi.

6. Joint Convener of National Workshop on "Energy Futures Research", July 28-29, 1984, sponsored by TERI, New Delhi
7. Joint Organisor of Silver Jubilee National Seminar on "Recent Trends on Electric Energy Systems", May 1986, IIT Delhi.
8. Has been nominated by the President of the Institution of Engineers (India) as its representative on the Technology Development Advisory Group on Energy Efficient Power Equipment of the Directorate General of Technical Development, Government of India.
9. Nominated as an external expert in the Board of Studies of REC Kurukshetra for 1986-88 and 1990-92 by the Kurukshetra University, SGSITS Indore, Jodhpur University and AMU Aligarh.
10. Participated as an expert in several selection committees of UPSC, NTPC and other Engineering Colleges and Technological Institutions.
11. Co-ordinator, CD Cell three days workshop on development of Energy Lab. Manual, 16 -18 Feb. 1996.
12. CEP course, Integrated Rural Energy Technology, Co-coordinator, MGIIRE PD, Rs. 76000, Jan.-May 1996.
13. Co-ordinator, QIP short term course on, "Pollution Free Energy and Power Systems", at IIT Delhi, June 16-27, 1997.
14. Co-ordinator, AICTE course on 'Energy-An IT Perspective' at IIT Delhi 27 Nov- 8 Dec, 2000
15. Member of the executive council, Sharda university, Greater Noida.(2011-2013)

Achievements/Awards

1. Stood 17th in the order of merit in the Matriculation Examination of the Vidarbha Board of Secondary Examination in 1961.
2. Stood 1st in the M.E (Power Systems) in 1969.
3. Have been awarded the Certificate of Merit four times by the Institution of Engineers (India) for joint papers (nos. 16, 180, 255 and 283 in the list enclosed).
4. Delivered special lectures in many short-term courses, winter and Summer Schools at IIT Delhi and various other Technological Institutions in India and Australia.
5. A large number of computer programmes for different aspects of power system studies have been developed under my direct guidance.
6. Reviewer of several books and technical papers relating to power systems, for publication in India and abroad.
7. Have been awarded the Best paper Award for paper no. 128 by the System Society of India.
8. Adjunct Professor, BITS Pilani, March 1995- July 2000.
9. The Union Ministry of Energy: Deptt. Of Power Medal for 1995-96 for paper no. 234.
10. Article No. 297 was adjudged the best article of the year in the Indian Journal of Transport Management for 1997-98 by the Association of State Road Transport Undertakings, New Delhi.
11. Appointed to the Research Board of Advisors by the American Biographical Institute Inc
12. Felicitated by the Institution of Engineers (India) at its 17TH National convention of Electrical Engineers as an eminent engineering personality on 24th Nov. 2001 at Nagpur.
13. Received UP Government National award for outstanding work done in specified areas of Engineering & Technology for 2001 at the 31st Annual convention of ISTE at Bhubneshwar

on 29th Dec, 2002.

14. Long, clean and meritorious Service Award on completion of 25 years of clean service at IIT Delhi, 2002. Award carries a sum of Rs 30,000.
15. Member – Editorial Board, International Journal of Electrical Power and Energy Systems, ELSEVIER for 2003-2005.
16. Member of the Senate, NIT, Srinagar, 2003.
17. Member – Editorial Board, International Journal of Emerging Electrical Power Systems.
18. Guest Editor –Special issue of Int. J. of “Global Energy Issues” on “Wind Power”, Vol.21, No.3, UK, 2004.
19. Visitor’s Nominee, IIT Roorkee.
20. Listed in who is who for the Asia/Pacific region, Dec 2004.
21. Academic Council Member of the SRDE’s Association of Higher Education Institutions 2004.
22. UGC National Swami Pranavananda Saraswati Award for 2005.
23. Khosla National Award for lifetime achievements in the field of engineering, 21st Sept 2005, IIT Roorkee.
24. Guest Editor –Special issue of Int.J. Of “Global Energy Issues” on Small Hydro Power Systems, Vol. 2005.
25. Recognition for outstanding contribution by International Biographical Centre, UK, Nov 2005.
26. Guest Editor. Special issue on “Impact Assessment and Study of Harmonics in Utility Networks”, Int.J of Energy Technology and Policy, Vol.4, Nos.1/2, 2006
27. Member, Editorial Board, The ICFAI Journal of Science and Technology, Hyderabad.
28. Man of the year 2002 Award by the American Biographical Institute, Inc, USA
29. Member, Board, Energy Institute, New Delhi since 2006.
30. Most Active Researcher Award, VIT University, Vellore, 31st August 2008.
31. Most Active Researcher Award, VIT University, Vellore, 1st August 2009.
32. Video lectures delivered by Prof. D.P. Kothari on Power Systems at IIT, Delhi are available on Youtube and are being watched by the entire world. Maximum Hits are more than 25000.
33. Prof. D. P. Kothari has given many TV / Radio Programmes on various subjects including energy and expressed his opinion on variety of topics in print media as well.
34. Life time achievement award by world management congress, New Delhi on 30th December 2009 in the area of educational planning and administration.
35. Awarded for the “A Predictive method for analyzing the impact of Wear & Tear on road conditions using RADAR detection system” (Invention ID: IN-811957) along with coworker Shriram Vasudevan.
36. Chief Editor, IIST journal of Electrical and Electronics Engineering.
37. Awarded “Vidharbha Bhushan Award” on 7th-October 2012 at Nagpur.
38. Awarded for the Best work in renewable energy in 2012 at Hyderabad by ISTE
39. Tantra Vigyan Rishibhushan Award Received From Agnihotri Group Of Institutions, Wardha in Jan 2013
40. Time Research Award for the outstanding contribution in education sector in Andhra Pradesh in April 2013.
41. The Indus Foundation Award for eminent educationist in Hyderabad in November 2013.
42. ISTE Honorary Fellowship 2013 at annual convention held near Kolhapur.
43. “Endowment Chair” in Department of Electrical Engineering, Charotar University of Science and Technology. 2014

44. Distinguished Visiting Professor at NIT Arunachal Pradesh. 2014- 2015.
45. Academic Excellence Award NPSC-2014 on 18th December 2014 at IIT, Guwahati.
46. Bharat Shiksha Ratan Award by Global Achiever on 10th April 2015 at New Delhi.
47. Member , Advisory Board Cyclique, New Delhi
48. Chief Editor of TECH-CHRONICLE (ISSN No: 2454-1958), GPGI, Nagpur.
49. Satish Kunti Goyal Award 15th Sep 2015.
50. Nominated for “Padma-Shri”.
51. "Bharat samman achievement award ", Education Council of India New Delhi, 19th Feb, 2016
52. An award for “Most Active Researcher” from CSI on 4th March in Inder Residency Udaipur, 2016.
53. Felicitated by Hon Shri ChandraShekhar Bawankule Energy Minister Maharashtra on 6th March in Nagpur at IEI conference, 2016.
54. “Life Time Achievement Award” at KNIT Sultanpur by Shri. A. P Mishra MD. Of UPCL Lucknow, on 11th March, 2016.
55. “Life Time Achievement Award”, Apex Engineering College Jaipur on 18th March 2016.
56. “Life Time Achievement Award”, at 20th March by SVCET, Pune.
57. “Life Time Achievement Award” on 25 March 2016 SLIET, Sangrur, Punjab.
58. “Living Legend Award”, on 20th April 2016 at Adhiparasakthi Engineering College, Chennai.
59. “Life Time Achievement Award” on 14th May 2016 by Dr. Kaushik , VC, RTU, Kota and Shri. Mahajan, Chairman, IE (I) Kota center.
60. “GLF GREEN AMBASSADOR FOR DISTRICT –NAGPUR, MAHARASHTRA, INDIA” on 29TH JULY 2016 AT The Surya, New Delhi.
61. Has been nominated as lead chair for guiding VIA for its academic activities.
62. “MOTHER TERESA PRIYADARSHINI AWARD” By AIDDA, New Delhi, September 2016.
63. “Engineering excellence Award -2017” By MODY University, Lakshmangarh, Rajasthan.
64. Living Legend Award on 22nd Oct 2018 at International IEEE conference at DTU Delhi.
65. The Life time Academic Excellence Award at IEEE conference , Kurukshetra on 2nd Jan 2019.
66. Felicitated in Vignan University in National Conference on Mathematics and Statistics and Applications today.
67. India Independence Award organised by International Association of Research and Developed Organization (IARDO), in recognition of tireless efforts in field of research on 18th Aug 2019.
68. ESN life time achievement award on 28th Sept at Chennai.
69. Appointed as President – ESN Awards .
70. Received Life time Achievement Award on 6th Dec at 5th International IEEE Conference at SRM University , Ghaziabad.
71. Felicitated along with other 10 Gurus in the Gurudakshina Program on 8th Feb at BITS Pilani.
72. Prestigious Scientist Award for (ISAH2020)!!!
73. Appointed as Vice Chairman – RE Society of India in 2020
74. Prestigious Scientist Award for TISA 2020 at 9th International Scientist Awards on Engineering, Science and Medicine.
75. Life Time Achievement Award by Institute of Technical and Scientific Research, Jaipur at an online award ceremony on 13th September 2020

Publications

- **Total Citations: 11291, h-index: 46, i10-index: 157.**

(Source: Google Scholar as on 16/04/2018)

- **International/National Patents**

1. Indian Patent on “Integrated H-bridge VSC with a zig-zag transformer based three-phase four-wire DSTATCOM”.
2. Indian Patent on “A novel transformer configuration for neutral current compensation”.
3. A Predictive method for analyzing the impact of Wear & Tear on road conditions using RADAR detection system” (Invention ID:IN-811957)
4. LOT BASED MONITORING SYSTEM FOR POWER TRANSFORMER OIL LEAKAGE DETECTION.

Books Authored/Edited

1. D.P. Kothari and I.J. Nagrath, "Modern Power System Analysis," Tata McGraw Hill, New Delhi, 1980(7 reprints), Second Edition, 1989 (25 reprints), Third Edition, 2003(20th reprint 2010); International Edition, McGraw-Hill, Singapore, 2004, McGraw-Hill, New York, 2006, also translated in Spanish .Fourth edition (2011)
2. D.P. Kothari et al "Electrical Engineering" (jointly authored the study lessons of this course), published by IETE, New Delhi, 1981.
3. S.S. Murthy, B.P. Singh, D.P. Kothari and C.S. Jha (Eds), "Electromechanics Laboratory Manual," Wiley Eastern, New Delhi, 1982.

4. D.P. Kothari and I.J. Nagrath, "Electric Machines", Approved by the UGC and published by Tata McGraw Hill, New Delhi with NBT subsidy, First Edition, 1985, (16 Reprints): Second Edition, 1997, (16 Reprints); Third Edition, 2004 (15th reprint 2009), Fourth Edition, 2010(1st reprint 2010), Fifth Edition, 2017.
5. A.K. Mahalanabis, D.P. Kothari and S.I. Ashon, "Computer Aided Power System Analysis and Control," Tata McGraw Hill, New Delhi, 1988, (First Reprint, 1991).
6. J. Nanda and D.P. Kothari (Eds.), "Recent Trends in Electric Energy Systems," Prentice Hall of India, New Delhi, 1988.
7. C.M. Bhatia and D.P. Kothari (Eds.), "Power Electronics Laboratory Manual," Galgotia Book source, New Delhi, 1988.
8. D.P. Kothari and I.J. Nagrath, "Theory and Problems of Electric Machines TMH Outline Series". Tata McGraw Hill, New Delhi, 1991. (Six Reprints) 2nd Edition, 2001(Fifth Reprint, 2003), International Edition, McGraw-Hill, Singapore, 2001, Sigma Series, 2006(6th reprint 2010).
9. D.P. Kothari and I.J. Nagrath and, "Power Systems Engineering," Tata McGraw Hill, New Delhi, 1994. (20 Reprints); 2nd edition, 2007 (9th Reprint 2010).
10. A.Chakrabarti, D.P. Kothari and A.K. Mukhopadhyay, "Performance, Operation and Control of EHV Transmission Systems," Wheeler Publishing, New Delhi, 1995
11. C.S. Indulkar, D.P. Kothari and K. Ramalingam, "Power System Transients: A Statistical Approach," Prentice Hall of India, New Delhi, 1996. 2nd edition 2010
12. D.P.Kothari and I.J.Nagrath, "Theory and Problems of Basic Electrical Engineering," Prentice Hall of India, New Delhi, 1998; Second Edition 2017.
13. D.P. Kothari and D.K. Sharma (Eds.), "Energy Engineering : Theory and Practice", S. Chand and Co. Ltd., New Delhi, 2000
14. D.P Kothari and I.J. Nagrath, "Basic Electrical Engineering", TMH, New Delhi, 2nd Edn, 2002 (Twentieth Reprint 2009), 3rd Edn, 2010 (1st Reprint 2010).
15. D.P. Kothari and J. S. Dhillon, "Power System Optimization", Prentice-Hall of India, 2004, 2nd Edition, 2011.
16. D.P. Kothari and Anshu Saxena, "Understanding Hypermedia: From Multimedia to Virtual Reality", Prentice-Hall of India, 2004.
17. T.S. Bhatti, R.C. Bansal and D.P. Kothari, "Small Hydro Power Systems", Dhanpat Rai, New Delhi, 2004.
18. D.P.Kothari, K.C.Singal and Rakesh Ranjan, "Renewable Energy Sources and Emerging Technologies", Prentice-Hall of India, New Delhi, 2007; 2nd edition 2011.
19. D.P. Kothari and P.M.V. Subba Rao, "Power Generation" in "Springer Handbook of Mechanical Engineering" ed. by Grote, Antonsson, Springer Germany 2009.
20. Akhtar Kalam & D.P.Kothari, "Power System Protection and Communications" , New Age Science Limited, UK (also Indian Edition – New Age International Publishers, New Delhi), 2010.
21. Abhijit Chakrabarti, D.P. Kothari, A.K. Mukhopadhyay and Abhinandan de, "An Introduction to Reactive Power Control and Voltage Stability in Power Transmission Systems", Prentice-Hall of India, 2010.
22. Pijush Samui and D.P.Kothari , "Artificial Intelligence in Civil Engineering , VDM Publishing House Ltd , Germany 2012.(Book Chapter – Site Characterization model using machine learning , Pijush Samui , Sarat Das and D.P.Kothari Nova Publishers , USA , 2010

23. G.P. Ganapathy, D.P.Kothari, "Thirty Years of Natural Disasters and Their Impacts 1976 - 2006: Analyzing Small and Medium Level Disasters" LAP LAMBERT Academic Publishing (April 29, 2011).
24. D.P.Kothari, Sriram, Sundaram and Murli, "Embedded Systems" New Age Int. (p) Limited, 2012.
25. Shriram K Vasudevan, Sivaraman Ramachandaran, Subashri V and D.P.Kothari, "Technical Interviews Made Easier", Galgotia Publishing Pvt Ltd, 2012
26. D.P.Kothari, Shriram, e-t "Linux/Unix - Hand Book for Beginners" New Age International Publishers, New Delhi, 2012.
27. D.P.Kothari, Shriram K Vasudevan, Subhashri V, Sivaraman Ramachandran."Analysis of Microcontrollers" Scientific International Pvt Ltd, New Delhi, 2012
28. D.P.Kothari, Shriram K Vasudevan, Subhashri V "C Simpler", S.Chand, New Delhi, 2012
29. D.P.Kothari, Kappagomtula C L, "Multi-currency Savings" Lambert Academic Publishing, 2012.
30. D.P.Kothari and S. Umashankar, "Wind Energy Systems and Applications", Narosa Publishing House Pvt Ltd, New Delhi, 2013.
31. D.P.Kothari and I.J.Nagrath, "Basic Electronics" TMH, New Delhi, (2014)
32. D.P.Kothari & I.J.Nagrath, Basic Electrical & Electronic Engineering. McGraw Hill Education (India) Private Limited, 2014
33. D.P.Kothari & B.S.Umre, Laboratory Manual for Electric Machines, I.K.International Publishing House Ltd, 2014.
34. D.P.Kothari, Shriram Vasudevan, Subhalakshmi & Palani Sami Computer Networking, Narosa Publishing House Pvt Ltd (New Delhi), 2014.
35. D.P.Kothari, Mahima Jain and Shefali Jagwani, "Electrical and Electronics Material", Narosa Publishing House Pvt Ltd, New Delhi, 2015.
36. D. P Kothari, I J Nagrath and HS Kalsi, Electrical engineering and Instrumentation, Mc-Graw Education, New Delhi, 2015
37. D. P Kothari and I J Nagrath, "Control System Engineering Theory and Problems," New Age International, New Delhi, 2015
38. D P Kothari and J S Dhillon, "Digital Circuits and Design", Pearson, New Delhi, 2015.
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40. D.P Kothari, G K Awari & S S Chaudhari, "Metrology And Quality Control Techniques- New Approach To Indian Industries". New Age International New Delhi (In Press).
41. D. P Kothari, G K Awari & Sandip S Khedkar, "Automation Destructive Testing (Ndt) Applications". New Age International New Delhi (In Press).
42. D. P. Kothari, G. K. Awari, U.B. Dubey, "Quantitative Techniques: Case Study Oriented". (In Press)
43. D. P. Kothari, Bhavesh Bhalija, and J. S. Dhillon, "AI Applications to Power Systems", (In Press)
44. Tariq Masood, R.K.Aggrawal, Naseer Al – Emadi and D.P.Kothari," Enhanced Power Flow /Voltage Control in the GCC Grid by SSSC Robustness. (In Press)
45. D. P. Kothari and Bhasavraj, "Utilization of Electric Power", (In Press)
46. D. P. Kothari and Subir Sen, "Unit Commitment", (In Press)
47. D. P. Kothari and Aijaz Ahmad, "Maintenance Scheduling", (In Press)
48. D. P. Kothari and Pushpendra Singh, "Power System Restructuring", (In Press)

49. D. P. Kothari and Kartik Ingole, "Wireless Communications", (In Press)
50. D. P. Kothari and H. K. Naidu, "Electrical Power Plant Practices", (In Press)
51. D. P. Kothari, K. C. Singhal and Rakesh Ranjan, "Environmental Science And Engineering", Narosa, 2015
52. Majid Jamil, " M.Rizwan and D.P.Kothari,"Grid Integration of Solar Photovoltaic Systems", TAYLOR AND FRANCIS, 2017
53. N R Sree Harsha Anupama Prakash D P Kothari The Foundations of Electric Circuit Theory, IOP publishers, UK, 2017.
54. Umeshkumar Dubey, D. P. Kothari and G. K. Awari "Quantitative Techniques in Business, Management and Finance", CRC Press, London 2017.
55. Shriram K Vasudevan , C Vivekananda , D.P.Kothari & Priyanka A "Cracking the ECE Skills " , IK Competitive Examination Test Prep Series.
56. I.S Jha , Subir Sen , Rajesh Kumar & D.P.Kothari "Smart Grid Fundamentals Applications" New Age International Publishers
57. Dr D.P.Kothari Rakesh D Dakhare "Basic Formulae Book for Electrical Engineering" Khanna Publishers
58. D.P.Kothari , I.J.Nagrath "Power System Engineering – 3rd edition" McGrawHill.
59. D.P.Kothari , I.J.Nagrath "Basic Electrical Engineering – 4th edition – McGrawHill.
60. D.P.Kothari.G Awari.d.Shrimankar.A Bhende "Mathematics for Computer Graphics and Game Programming" Mercury Learning & Information , Boston , USA.
61. Written and Oral Technical Communication Skills for Scientists/ Engineers - Dr D.P.Kothari , Hardeep Singh , J.S Jogi by Lambert Academic Publishing.
62. Hydraulic Machines - A mathematical approach in SI Units - Dr D.P.Kothari , V.V Ambade , G.K Awari by New Age Publishers.
63. Basic Electrical and Electronics Engineering by Dr D.P.Kothari and I.J Nagrath. McGrawHill.
64. Hydraulic Machines by Dr D.P Kothari , Dr G K Awari and Mr V.V Ambade published by New age Publishers, New Delhi 2020.
65. Industrial Instrumentation by Milind Purna, Krishna Kumar, Shriram Vasudevan & Dr D.P.Kothari published by Yes Dee Publishing Pvt Ltd, 2020.
- 66 Basic Electrical and Electronics Engineering 2nd edition, Dr D.P Kothari & I.J Nagrath published by McGraw Hill , 2020

○ **Papers Authored/Coauthored**

- Featured Publications:

1. Bhim Singh, Brij N. Singh, Ambrish Chandra, Kamal Al-Haddad, Ashish Pandey, and Dwarka P. Kothari, "A review of single-phase improved power quality AC-DC converters," IEEE Trans. Industrial Electronics, Vol. 50, Oct 2003. pp. 962-981. **(No. of citations: 1031)**
2. Bhim Singh, Brij N. Singh, Ambrish Chandra, Kamal Al-Haddad, Ashish Pandey and Dwarka P. Kothari, "A review of Three-Phase Improved Power Quality AC-DC Converters", IEEE Trans. Industrial Electronics, Vol. 51, No. 3, June 2004. **(No. of citations: 716)**
3. Ibraheem, P. Kumar and D. P. Kothari, "Recent philosophies of automatic generation control strategies in power systems," in IEEE Transactions on Power Systems, vol. 20, no. 1, pp. 346-357, Feb. 2005. **(No. of citations: 585)**

4. D Das, D.P. Kothari and A. Kalam, A simple and efficient method for load flow solution of radial distribution networks, Int. J. of EPES, 1995, pp 335-346. **(No. of citations: 419)**
5. D. Das, H.S. Nagi and D.P. Kothari, A novel method for solving radial distribution networks, Proc. IEE PTC, GTD vol. 141, No. 4, July 94, pp. 291-298. **(No. of citations: 367)**
6. J.S. Dhillon, S.C. Parti and D.P. Kothari, Stochastic economic emission load dispatch, Int. J. Electric Power Systems Research, Vol. 26, No. 3, 1993, pp. 179-183. **(No. of citations: 360)**
7. R. C. Bansal, T. S. Bhatti and D. P. Kothari, "Bibliography on the application of induction generators in nonconventional energy systems," in IEEE Transactions on Energy Conversion, vol. 18, no. 3, pp. 433-439, Sept. 2003. **(No. of citations: 298)**
8. Subir Sen, D.P. Kothari, "Optimal thermal generating unit commitment: a review", International Journal of Electrical Power & Energy Systems, vol. 20, 7, 1998, Pages 443-451, ISSN 0142-0615. **(No. of citations: 231)**
9. J. Nanda, D. P. Kothari and K. S. Lingamurthy, "Economic-emission load dispatch through goal programming techniques," in IEEE Transactions on Energy Conversion, vol. 3, no. 1, pp. 26-32, Mar 1988. **(No. of citations: 217)**
10. R.C. Bansal, D.P. Kothari, T.S. Bhatti, On Some of the Design Aspects of Wind Energy Conversion systems, International Journal of Energy Conversion and Management, Vol. 43, No. 16, pp. 2175-2187, Nov. 2002. **(No. of citations: 207)**

- All Publications:

11. I.J. Nagrath, G. Dayal and D.P. Kothari, "Optimum Scheduling of HydroThermal System Taking Transmission Losses into Account," Journal of I.E. India, Vol. 522, No. 2, EL1, Oct. '71, pp. 28-34.
12. I.J. Nagrath and D.P. Kothari, "Optimal Scheduling of Hydro Thermal System Using Discrete Maximums Principle," Presented at the Seminar on 'Problems of Interconnected Power Systems', IEE (London), Delhi, March 10-11, 1973.
13. I.J. Nagrath, G. Dayal and D.P. Kothari, "An Application of the Discrete Maximum Principle to the Optimum Scheduling of Multireservoir System, Journal of I.E. (India), Vol.53 R/1, Feb. 1973, pp. 101-105.
14. I.J. Nagrath and D.P. Kothari, A comparison of some techniques for optimal hydrothermal operation, proceeding of the symposium on 'Power system performance and optimization', held at Delhi, Dec. 79, 1974, p. 55.
15. D.P. Kothari and L.D. Arya, Optimal thermal generating unit commitment employing dynamic programming, ibid, pp. 118-124.
16. I.J. Nagrath and D.P. Kothari, Optimal hydrothermal scheduling and unit commitment, presented at the IEEE India Section, Annual Convention, Bangalore, February 1975.
17. D.P. Kothari and R.K. Mittal, Comparison of economic dispatch and minimum emission dispatch, Electrical India, Vol. xvi, No. 1, January 1976, pp. 9-12.
18. I.J. Nagrath and D.P. Kothari, Optimal scheduling of cascaded hydrothermal systems, Journal of I.E. (India), Vol. 56, 1976, pp. 264-267.
19. D.P. Kothari, S.K. Maheshwari and K.G. Sharma, Minimization of air pollution due to thermal plants, Journal of I.e. (India), Vol. 57, En. No. 2, Feb., 1977, pp. 65-68.
20. R.K. Mittal, D.P. Kothari, S.S. Gupta and Kamal Kumar, Automation of ageing drum, presented at the seminar Challenges before the chemical Industry, BITS Pilani, Feb. 5-6, 1977.
21. I.J. Nagrath and D.P. Kothari, Optimum and secure thermal generating unit commitment, National Systems Conference, Coimbatore, June 2-4, 1977.
22. D.P. Kothari and R.K. Gupta, Optimal Stochastic Load flow studies, Journal of I.E. (India), Aug. 1978, pp. 34-37.
23. D.P. Kothari and I.J. Nagrath, Optimal scheduling of hydrothermal systems with probabilistic data using discrete maximum principle, Proc., NSC, Ludhiana, Sept., 1978, pp. 57-59.
24. J.S. Gupta, D.P. Kothari and R.S. Dahiya, A hierarchical approach to control power systems, Proc. NSC, Ludhiana, Sept., 1978, pp. 4-6.
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29. P.G. Murthy, D.L. Shenoy, J. Nanda and D.P. Kothari, Performance of typical power flow algorithms with reference to Indian Power systems, Proceedings second symposium on

power plant dynamic control, Hyderabad, Feb. 1979, pp. 219- 225.

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32. D.P., Kothari and I.J. Nagrath, Optimal Stochastic scheduling of hydrothermal systems using discrete maximum principle, Journal of I.E. (India), Vol. 61, EL1, Aug. 1980, pp. 22-26.
33. D.P. Kothari and C.M. Bhatia, Evaluation scheme in credit system, Indian Journal of Technical Education, Vol. 6, No. 3, April August 1980, pp. 149-154.
34. D.P. Kothari, Tap Bijli Gharon ke Sandharbha men Wayu Pradushan Aug. Uska Niwaran, (Hindi), Journal of I.E. (India), Vol. 61, Dec. 1980, pp. 121-122.
35. D.P. Kothari and Arun Kumar, Modified coordination equations for economic dispatch using fast decoupled load flow, presented at the National Seminar on "Power System Planning and Practice," held at Waltair, April 11-12, 1981.
36. C.S. Indulkar, Parmod Kumar and D.P. Kothari, Sensitivity analysis of modal quantities for underground cables, IEE Proc. 128, pt. C, No. 4, July 1981, pp. 229-234.
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