

Monograph on 3D Printing

Authors: Dr. K. Ramachandra, K. Vijayakumar, R. Vijay Krishna



This monograph will familiarize the reader on 3D printing; Introduction to 3D printing; history; working process of 3D printing; Types of 3D printing; 3D metal printing; applications & of 3D printing.

Price: Rs. 250/-

No of Pages: 70

Monograph on Nanosensor technology last technological revolution?

Author: Prof. N. Chandrasekaran

This Monograp deals with the development of new materials for contemporary applications, such as Nano Science, Nanotechnology and Nano-biotechnology. These developments have resulted in making better materials for electronics, energy and medicine, paving the way for newer and highly efficient devices, diagnostic tools and drugs. This monograph also explores the technology behind Nanosensors taking readers through a journey of discovery and gives an insight into the latest development of trends in this contemporary field.



Price: Rs. 375/- **No of Pages: 168**
Monograph on Wood Science, Engineering and Technology

Authors: S.C Joshi, Shakti chauhun, Y.B. Srinivasa, Anil sethy, Ritesh D.Ram, Pankaj Agarwal

NDRF has brought out a Monograph on "Wood Science & Technology" in collaboration with Institute of Wood Science and Research, Bangalore. This monograph was also released at 28th Indian Engineering Congress-2013 at Chennai. This monograph is one of the outcomes of collaborative initiatives of NDRF with leading research organizations to bring an interdisciplinary focus for promoting sustainable engineering solutions and systems using contemporary technologies. The monograph will be a useful reference for Engineering Policymakers, Professionals, and Educationists in their effort to address challenges posed by problems such as restoration of the ecological balance, loss of biodiversity, degradation of forests, climate change, and promote further research and adoption of best practices in sustainable wood production, and efficient utilization of this natural resource.

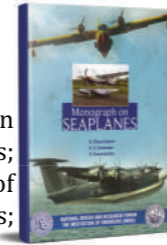


Price: Rs. 250/-

No of Pages: 131

Monographs on Seaplanes

Authors: Dr. K. Ramachandra, K.V. Srinivasan, K. Dinesh kumar



This Monograph covers the topic: Introduction to Seaplanes; Structural Design of Seaplanes; Aerodynamics and Hydrodynamics of Seaplanes; Flight Performance of Seaplanes; Propulsion system for seaplanes and Applications of Seaplanes

Price: Rs. 250/-

No of Pages: 82

Monograph on Biosensors

Author: Dr. M. S. Thakur

This Monograph covers the synergy of Engineering and Biology which is progressing at a rapid pace and as a consequence is biosensors are finding wide applications in various fields like Health, Food Technology, Agriculture, Defense, and Space Technology. In addition, it also deals with research aspects including elemental biological warfare agents, explosives and application development. This book not only lists the different kinds of biosensors, but also delineates the sensitivity and applicability aspects of those sensors, which are all of high practical use.



Price: Rs. 175/-

No of Pages: 56

The Discipline & Culture of Innovation: A Socratic Journey

Authors: Jay Rao, Fran Chuan

This book was published by NDRF on the occasion of the Indian Technology Congress 2013, written jointly by Prof. Jay Rao, Babson College, Boston and Fran Chuan, an Entrepreneur from Spain. Innovation has become the buzzword of our time. Every industry today aspires to invent and innovate new ideas as well as products. The book deals with practice of Innovation in enterprises by treating innovation both as a discipline as well as a culture. This book surmises research that executives have the power to create understand principles behind introducing innovation in their organizations. A must read for anyone who seeks increased and repeatable ROI, the 'I' being Sinnovation.



Price: Rs. 333/-

No of Pages: 116



Padma Shri Dr. M. Annadurai
Chairman

Dr Mylswamy Annadurai, is the space scientist of International repute and technical leader of par excellence. Currently holding the responsibilities of Vice President, Tamil Nadu Sate Council for Science and Technology and Chairman, Board of Governors, National Design and Research Forum. Prior to taking current responsibilities, with the educational qualifications of BE, ME and PhD in Engineering, Dr Annadurai led more than 2500 strong scientists and engineers as Director, ISRO Satellite Centre by expanding ISRO's horizons for making 12 to 15 Satellites per year and developing new technologies. Accordingly, 30 state of the art satellites have been launched during 2015-18 and few more are ready for launch. Prior to that he led two of the most significant achievements of ISRO namely Chandryanna-1 and Mars Orbiter Mission, in the capacity of Project Director and Programme Director for the respective missions. Dr Annadurai has contributed more than 60 satellites made in India. He had led many international committees on space sciences.



Dr. V. Dillibabu
Director

Dr. V. Dillibabu is a scientist with DRDO, Ministry of Defence, Govt of India. He has experience in R&D and manufacturing of Defence aeronautical structures and propulsion systems. He has post graduations in Aircraft engines, Business Management and Literature. He holds a PhD in Production Engineering from National Institute of Technology, Trichy. He has international certifications in Quality Management and Six Sigma. Dr. V. Dillibabu is proponent of technology for common man. He had established 'Engineers Without Borders' in Karnataka and was instrumental in guiding budding engineers to carry out techno-social projects in three southern states. He is the pioneer in taking bio-digester based sanitation solutions to govt schools and credited with first installations in Karnataka and Tamilnadu. He is the author of 6 books on technology and literature.

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Monograph on Bio Printing

Authors: Joffin Jose, Srinivas Durvasula, Dr. L.V. Muralikrishna Reddy

This monograph Disseminates immense Knowledge on Bio printing; Introduction to Bio printing; working of Bio printing; Applications; Evolution of Bio Printing; current technologies & future of Bio printing.



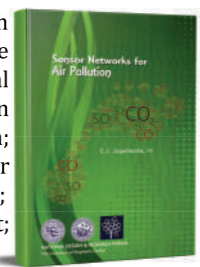
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Monograph on Sensor Networks for Air Pollution

Author: Dr. C. J. Jagadeesha

This monograph is an extremely informative on Sensor Networks for Air Pollution. It covers the topic: Introduction; Urban Asphyxia; Rural Asphyxia; Thermodynamics and Air Pollution Models; Sensing Applications for Air Pollution; Sensor Networks & Grids; Tower Sensor Networks for Monitoring Air Pollution; Towards Sustainable Air Quality Management; Discussion and Conclusions; Sources and References.



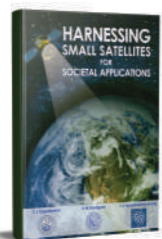
Price: Rs. 390/-

No of Pages: 134

Monograph on Harnessing Small Satellites for Social Appreciations

Authors: Dr. C. J Jagadeesha, Prof. R.M Vasagam & Dr. L.V M. Reddy

This Monograph familiarizes the reader on Harnessing Small Satellites for Social Appreciations and cover the topics: Introduction; Small Satellites sub -systems & Orientation and stabilization systems; Small satellites constellations; Entire Gamut of Small Satellites; Small Satellites, near space systems, other aero-systems like UAVs and Micro Air Vehicles; Small Satellites for Societal Applications; Metrology of Small Satellites; Small Satellites for Marine and Defense Applications; Small Satellites for near- Space Environments; Indian Small Satellite Programmes.opulsion system for seaplanes and Applications of Seaplanes



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Book on Bio-Aerodynamics of Avian Flight

Author: Prof. N. Chari

This Book familiarizes the reader on "Bio-Aerodynamics of Avian Flight" and cover the topics: Introduction to flight; Bird Flight; Aerodynamic Fundamentals -Fluid dynamics; Biological Flight Parameters; Power requirement of fliers; Gliding, Soaring and dynamic soaring flight; Bouncing Flight; Evolution of Flight and Classification; Atmosphere; Altitude physiology and sickness(Aviation Medicine); Reynolds Number and Bio-Mimicking of fliers ; Bird Migration; A review of theories on wingbeat frequency; Hovering fliers; vortex dynamics of the flapping wing MAV; Flapping wing Air vehicles in India - an overview.nd Hydrodynamics of Seaplanes; Flight Performance of Seaplanes; Propulsion system for seaplanes and Applications of Seaplanes



Price: Rs. 375/-

No of Pages: 270

Monograph on Micro Air Vehicles

Authors: Dr. Krishna Venkatesh, Vivek C.S, Krishna kishore J & Dr. Gopalakrishna K

This Monograph familiarizes the reader on Micro Air Vehicles and covers the topic: History of flight; MiCAV Development Programs; MiCAV Missions; MiCAV Platforms; Aerodynamics; Materials and Manufacture; Power and Propulsion system; Sensors and actuators; control and communication; advanced research areas and foreseeable future.s and Hydrodynamics of Seaplanes; Flight Performance of Seaplanes; Propulsion system for seaplanes and Applications of Seaplanes.



Price: Rs. 999/-

No of Pages: 431

Book on Space and Satellites

Author: Wg Cdr DP Sabharwal

This Book familiarizes the reader on Space and Satellites and cover the topics: Basics of Satellites; Begining of Sapce age; Satellite orbits; classification of satellites; A peep into Satellites; Launch and other Aspects; Indian Satellite Programme; ISRO; Interesting Satellites.



Price: Rs. 299/-

No of Pages: 163

Book on R&D Management

Authors: K Srivastav, M.P Chowdiah, K .B Akhilesh

This book disseminates knowledge on R&D Management and considered Scientists and engineers or R&D personnel are the strategic human resources. They contribute to the advancement of technology and through that, for the performance and overall organizational effectiveness. They mainly engage in technology absorption ,adaption and innovations.



Price: Rs.150/-

No of Pages: 239

Book on Acoustics & Noise Control

Author: Dr. B V A Rao

This Book was published in the year 2013. Acoustics is a unique subject that has an interdisciplinary focus, with applications across multiple areas. Study of Acoustics is essential to promote the creation of products and environments that are reasonably devoid of harmful noise and vibrations. Acoustics is also important for sustainable development. This monograph will familiarize engineers with the concepts, tools and methods of analyzing noise in machinery and adopt the best practices is quieter design, addressing the real-life complex engineering challenges and protecting the quality of products and environments.



Price: Rs. 350/-

No of Pages: 120

Book on Taoist directions for Design & Development

Author: Dr. Ramalingam K.S

Tao of DFM (TDFM) is explained in detail in this book titled as 'Taoist Directions for design & Development -TDDD calls for the great change from design having the conventional target of 'Functionality' to 'Functionality & Manufacturability'. Disseminates knowledge on Manufacturability that can be defined as 'the degree to which a product can be manufactured easily, with maximum efficiency, minimum costs, and little barrier to being competitive in the marketplace' 'Design For Manufacturability' is the process of proactively designing products.



Price: Rs. 300/-

No of Pages: 268

Other Publication

Quarterly Journal Entitled Engineering Design Journal (EDJ): With a view to enlighten the readers of the development of R & D in various Engineering disciplines, since the year 1991, NDRF has published special issues of EDJ on identified topics. The list giving details of EDJ publication since 1990 is enclosed herewith. The journal is supplied free of cost to the members of NDRF and others by payment has been well appreciated in India and abroad for the pioneering efforts of the various editorial boards in identifying the topics of currents interest and publishing the same regularly.

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