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Series Editors:



Dr.N.KANTHAVELKUMARAN B.E., M.E., Ph.D., M.B.A., Professor & PG Co-ordinator Department of Mechanical Engineering Ponjesly College of Engineering Alamparai, Nagercoil, INDIA kanthavelpriya@gmail.com



Dr. M.S. STARVIN
B.E., M.E., Ph.D.,
Assistant Professor (Senior Grade)
Department of Mechanical Engineering
University College of Engineering Nagercoil (A constituent college of Anna University Chennai)
Nagercoil, Tamil Nadu, INDIA
mstarvin@gmail.com



Dr.C.BIBIN
B.E., M.E., Ph.D., M.B.A.,
Associate Professor
Department of Mechanical Engineering
RMK College of Engineering and Technology
Puduvoyal, Chennai, INDIA
drebibin@gmail.com



Dr.G.ARUMUGASAMY
M.Com., M.B.A., M.Phil., Ph.D.,
Professor& Head
Management Studies
Ponjesly College of Engineering
Alamparai, Nagercoil, Tamilnadu, INDIA
g.arumugasamy74@gmail.com



Dr.A.SARAVANAN
B.E., M.E., Ph.D.,
Professor & Head
Department of Mechanical Engineering
Ponjesly College of Engineering
Alamparai, Nagercoil, Tamilnadu, INDIA
ktppsiva@gmail.com

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Call for Chapters

Recent Trends in Mechanical Engineering, **Environmental Engineering and Management**

Aims and Scope:

- Innovation in Design and Manufacturing: To push the boundaries of what is possible with new technologies and materials, improving performance, durability, and customization.
- Efficiency and Automation: To enhance productivity and precision in manufacturing processes, reducing costs and time-to-market
- Sustainability: To create systems and products that minimize environmental impact and use resources efficiently
- Additive Manufacturing: Develop new applications for 3D printing in various industries, improve material properties, and refine printing techniques
- Industry 4.0: Integrate IoT, AI, and data analytics into manufacturing systems, enabling smarter factories and predictive maintenance
- Advanced Materials: Research and develop new materials with improved properties for specific applications, including smart materials and nanocomposites
- Robotics and Automation: Design and implement advanced robotic systems for tasks ranging from assembly to hazardous material handling, including collaborative robots.
- Sustainable Practices: Innovate in energy-efficient designs, lifecycle assessment, and the use of sustainable materials and manufacturing processes

Definition: Renewable energy sources derived from organic materials like plants, algae, and waste. Examples include ethanol, biodiesel, and biogas.

- o First-Generation: Made from food crops (e.g., corn ethanol, soybean biodiesel). Can compete with food supply and may have limited environmental benefits.
- o Second-Generation: Produced from non-food biomass (e.g., agricultural residues, wood chips). Generally offers better environmental benefits
- o Third-Generation: Derived from algae. Potentially high-yield and less land-intensive, but currently expensive and less developed
- Fourth-Generation: Experimental; aims to integrate advanced technologistis: ater efficiency and lower em

during growth.

Particulate and Toxic Emissions: Generally produces fewer particulate matter and toxic emissions (e.g., sulfur compounds), improving air quality and reducing respiratory health issues.

Lifecycle Impact Emissions reduction depends on the entire lifecycle, including cultivation, processing, and transportation. Sustainable practices are crucial to custure overall benefits.

- Environmental Impact:

 o Land Use: Expansion for biofuel crops can lead to habitat loss and biodiversity reduction
 o Food Competition: Use of food crops for biofuel can impact food supply and prices.
 Environmental Engineering

- Environmental Protection: To develop and implement technologies and practices that protects natural resources and reduces pollution. Resource Management: To ensure the sustainable use of resources like water and energy, and to manage waste effectively. Climate Action: To address and mitigate the effects of climate change through immovative solutions and strategies.
- Climste Change Mitigation: Develop and deploy technologies for carbon capture and storage (CCS), renewable energy systems, and
- Claimse Uninger Surganous and Service of the Committee of
- Sustainable Development: Design and implement green infrastructure, and promote sustainable urban planning practices
- Operational Efficiency: To streamline processes, reduce waste, and improve overall organizational effectiveness.

 Adaptability: To enhance the ability of organizations to respond to changes in the market, technology, and workforce dynamic Sustainability and Corporate Responsibility: To integrate sustainable practices and ethical considerations into business strateg
- Digital Transformation: Leverage digital tools, including AI, data analytics, and cloud computing, to drive decision-making, innovation, a Digital Transformation: Leverage digital tools, including AI, data analytics, and cloud computing, to drive decision-making, innovation, a distribution of the computing of the computing
- Remote Work Management: Develop strategies and tools for managing remote and hybrid teams, including virtual collaboration platforms and
- Sustainability Initiatives: Incorporate environmental and social considerations into corporate strategies, focusing on sustainability reports
- esponsible business practices.

 Employee Well-being: Implement programs and policies to support mental health, work-life balance, and overall employee satisfaction.

Author Benefits:

- 1. Selected chapters (not all) will be indexed in RSquareL and other indexing platforms including Amazon, Google Books etc.
- 2. Publication of chapter in book series with ISBN /
- 3. Publishing in IIP Proceedings Digital Library with
- 4. Open access mode of publication in IIP Digital
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- 6. Unique dashboard to Author
- 7. Easy paper/chapter management system with transparency of the process including peer review
- 8. One complimentary copy per chapter
- 9. Certificate to all authors who contributed chapter(s)

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