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Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. The role of manufacturing in a country's economy and societal development has long been established through their wealth generating capabilities. To enhance and widen our knowledge of materials and to increase innovation and responsiveness to ever-increasing international needs, more in-depth studies of functionally graded materials/tailor-made materials, recent advancements in manufacturing processes and new design philosophies are needed at present. The objective of this volume is to bring together experts from academic institutions, industries and research organizations and professional engineers for sharing of knowledge, expertise and experience in the emerging trends related to design, advanced materials processing and characterization, and advanced manufacturing processes. Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better. Rural women across the world work along agri-food value chains performing numerous agricultural operations. Their work is increasingly affected by land degradation, climate change impacts, and out-migration. It is often unrecognized, unqualified, and unpaid. Moreover, the traditional division of labor often relegates women to manual, time-consuming operations with high degrees of drudgery. The combination of family responsibilities and insufficient access to critical services, information, and technologies, affects women's work burden and their potential for income generation. For example, fewer rights over land make it more difficult for women to access subsidies, finance, or mechanization. There are three ways in which sustainable mechanization can empower women and respond to their needs: as customers of mechanization service providers - reducing their drudgery, and freeing up time for resting or opting for other social or economic activities; as operators of machinery and equipment or staff of a mechanization hiring services business - offering their service to others to earn an income; as entrepreneurs managing their own mechanization hiring services agribusiness - providing a service for other farmers and generating revenue. The goal of this catalogue is to promote and support women's access to sustainable agricultural mechanization as operators and/or managers. It lists and provides information on market-tested machinery and equipment for crop production and post-harvest operations. This catalogue highlights the potential for smallholder farmers, including women, to earn an income via mechanization hire service. The information for each machine or equipment includes: its function its main features what it is suitable for its technical specifications (key features only) where to buy its pictures. The target audience includes extensionists, gender experts, agricultural engineers, government officials, donors, micro-finance institutions, and implementing partners seeking to: promote inclusive agricultural mechanization interventions; reduce women's drudgery and improve the efficiency of tasks they perform; address gender issues in agriculture; support economic opportunities for women as entrepreneurs. Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better. This practical book, co-published with the National Environmental Health Association, describes the step-by-step procedures needed to avoid common pitfalls in septic system technology. Valuable in matching the septic system to the site-specific conditions, this useful book will help you install a reliable system in both suitable and difficult environments. Septic tank installers, planners, state and local regulators, civil and sanitary engineers, consulting engineers, architects, homeowners, academics, and land developers will find this publication valuable. Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. 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Its objective is to provide extension officers, technicians, mechanics, and youth with the necessary information and skills to become trainers and deliver technical capacity sessions on this topic. There is a mix of theory and practice in this training. Participants must have the time to individually perform the different tasks described in the modules with close supervision. The training manual comprises four modules: ? Module 1 covers different tractors as a power source and power take-off operations. ? Module 2 focuses on the implements and equipment attached to tractors for field operations. ? Module 3 is about harvest, post-harvest and storage technologies. ? Module 4 covers general aspects and tips for maintenance, spare parts and replacements. Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better. This book reviews recent innovations in the smart agriculture space that use the Internet of Things (IoT) and sensing to deliver Artificial Intelligence (AI) solutions to agricultural productivity in the

agricultural production hubs. In this regard, South and Southeast Asia are one of the major agricultural hubs of the world, facing challenges of climate change and feeding the fast-growing population. To address such challenges, a transboundary approach along with AI and BIG data for bioinformatics are required to increase yield and minimize pre- and post-harvest losses in intangible climates to drive the sustainable development goal (SDG) for feeding a major part of the 9 billion population by 2050 (Society 5.0 SDG 1 & 2). Therefore, this book focuses on the solution through smart IoT and AI-based agriculture including pest infestation and minimizing agricultural inputs for in-house and fields production such as light, water, fertilizer and pesticides to ensure food security aligns with environmental sustainability. It provides a sound understanding for creating new knowledge in line with comprehensive research and education orientation on how the deployment of tiny sensors, AI/Machine Learning (ML), controlled UAVs, and IoT setups for sensing, tracking, collection, processing, and storing information over cloud platforms for nurturing and driving the pace of smart agriculture in this current time. The book will appeal to several audiences and the contents are designed for researchers, graduates, and undergraduate students working in any area of machine learning, deep learning in agricultural engineering, smart agriculture, and environmental science disciplines. Utmost care has been taken to present a varied range of resource areas along with immense insights into the impact and scope of IoT, AI and ML in the growth of intelligent digital farming and smart agriculture which will give comprehensive information to the targeted readers. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. The dynamics of farm mechanization in pulses is a challenging issue to address. This text emphasizes the necessary keys in building and operating farm mechanization in pulses to complete the task by research, sensitization and policy decision. The authors believe that the book will help in implementation of farm mechanization in pulses which may be achieved with sensitization of farmers for adoption of recommendations, scientists to work on wide spectrum of researchable issues and policy makers to develop farmers friendly strong policy. The essence of the book will help in doubling the farmers income, reducing import of pulses and vanishing mal-nutrition from the country. This volume contains the papers of the 1st Workshop IFToMM for Sustainable Development Goals (I4SDG), held online on November 25-26, 2021. The main topics of the workshop include the aspects of theory, design and practice of mechanism and machine science which are instrumental in reaching a sustainable development, such as: biomechanical engineering, sustainable energy systems, robotics and mechatronics, green tribology, computational kinematics, dynamics of machinery, industrial applications of mechanism design, gearing and transmissions, multibody dynamics rotor dynamics, vibrations, humanitarian engineering, and socio-technical systems for sustainable and inclusive development. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists, demonstrating that medical and service robotics will drive the technological and societal change in the coming decades. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. This book comprises select papers presented at the Conference on Innovative Product Design and Intelligent Manufacturing System (IPDIMS 2020). The book discusses the latest methods and advanced tools from different areas of design and manufacturing technology. The main topics covered include design methodologies, industry 4.0, smart manufacturing, and advances in robotics among others. The contents of this book are useful for academics as well as professionals working in the areas of industrial design, mechatronics, robotics, and automation. This edited volume celebrates the positive stories and small changes happening with respect to gender equality in the field of agriculture. This book identifies crisis which a woman faces in the field of agriculture as a farmer. The book shares unsung stories of women farmers who are bringing change at the grassroots. It puts together the positive developments experienced by the experts, researchers, professional while working for and with women farmers, to highlight the challenges to bring equity in agriculture. Women in agriculture often lack identity where either they are recognized as farmer's wife or a farm labourer. Women farmers who contribute 60 percent in to farm practices like sowing, transplanting, fertilizer application, weeding, harvesting, winnowing are merely recognised and provided an equal level playing field. Women are also found participating in the various forms of processing and marketing of agriculture produce, along with the cultivation but system has failed to protect their rights and offer them a platform to voice their concerns. This book shares the process, challenges, experience, strategy from the narrative of progressive women farmers so as to highlight and understand what it takes to bring changes for achieving the goals of an equitable farming ecosystems. The book is a relevant reading material for students, researchers, professionals and policy advocates in agriculture and gender research.

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