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Autore	Chakrabarti Amaresh
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Nota di contenuto	PART I: Application of Design Knowledge in Practice (Automotive, Aerospace, Biomedical Devices, etc.) -- 1. Prioritizing modest medical device design for rural healthcare settings -- 2. Identifying Rules Based on Connections between Engineering Changes in the Wiring Harness Development -- 3. Self-Defence Gadget for Women: Design & Development -- 4. Design of Travel Pillow -- 5. Design and development of ergonomic and customizable walking cane -- 6. Design Challenges in Permaculture Adoption in India: Case study of Wheat and Soya-bean -- 7. Radial Arterial Pulse Acquisition System for Traditional Indian Medicine -- 8. Product design for reducing infection transmission during endotracheal intubation surgical procedure -- 9. Optimization-based Ecodesigning of a Plugin Hybrid Electric Vehicle with Frugal Engineering for Emerging Economy Market -- 10. TO

ADDRESS SHELF LIFE OF PERISHABLE EXOTIC FRUITS: A STUDY OF LOCAL FRUIT VENDORS IN GANDHINAGAR -- 11. Designing a low-cost manual CPAP medical device for obstructive sleep apnea syndrome -- 12. A study of the Indian value system of Garbha Sanskar for a positive development of a child during the Antenatal stage of pregnancy -- 13. Design Knowledge in Practice: An ethnographic study with Santhal and Mohli tribal artisans of Dumka, India -- 14. Design and Development of an Ergonomic Rag Picking Kit for Rag Pickers -- 15. Design and Development of Ragi (Finger millet) Thresher. etc.

Sommario/riassunto

This book showcases cutting-edge research papers from the 9th International Conference on Research into Design (ICoRD 2023) – the largest in India in this area – written by eminent researchers from across the world on design processes, technologies, methods and tools, and their impact on innovation, for supporting design for a connected world. The theme of ICoRD'23 has been 'Design in the Era of Industry 4.0'. Industry 4.0 signifies the fourth industrial revolution. The first industrial revolution was driven by the introduction of mechanical power such as steam and water engines to replace human and animal labour. The second industrial revolution involved introduction of electrical power and organised labour. The third industrial revolution was powered by introduction of industrial automation. The fourth industrial revolution involves introduction of a combination of technologies to enable connected intelligence and industrial autonomy. The introduction of Industry 4.0 dramatically changes the landscape of innovation, and the way design, the engine of innovation, is carried out. The theme of ICoRD'23 - 'Design in the Era of Industry 4.0' –explores how Industry 4.0 concepts and technologies influence the way design is conducted, and how methods, tools, and approaches for supporting design can take advantage of this transformational change that is sweeping across the world. The book is of interest to researchers, professionals, and entrepreneurs working in the areas on industrial design, manufacturing, consumer goods, and industrial management who are interested in the new and emerging methods and tools for design of new products, systems, and services.
