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Sommario/riassunto

The challenges facing product design and development are getting more and more interesting. On the one hand, the astonishing and ever-evolving technologies of Industry 4.0. Cyber-physical systems, additive manufacturing, the Internet of Things and the Internet of Everything, augmented and virtual reality, big data analytics, autonomous vehicles and robots, artificial intelligence, all connected by sensor networks are mandating the breaking of industrial paradigms that have been in place for years. On the other hand, the need to take into account sustainability and the circular economy, which are serious constraints in many areas of the operation of manufacturing and service companies. However, these are constraints that must be taken into account by industry if we want to continue to live safely on our planet. The monograph presented here is a systematic review of the literature on the topic of product design for excellence (DfX) in the era of the challenges presented. The book conducts a quantitative and qualitative analysis of publications on the subject of DfX. Current trends related to the field of product design and development were identified. On this basis, the author's concept of DfX 4.0 is presented, which, according to the author, can provide an excellent basis for scientific and practical discussion of the subject of design of the future. Design that, in addition to technological advances, will have to take into account the no less important issues of sustainable development and a circular economy.
