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manufacturing trends drive operational efficiency informed decision making and sustainability within manufacturing firms collaborative robots autonomous mobile robots and smart factories enhance productivity while cutting labor expenses this lights out production concept where manufacturing activities and material flows are handled entirely automatically is becoming an increasingly common attribute of modern manufacturing the modern manufacturing operation where thousands of individual workers interact with global supply chains and automated equipment to produce the products we know and love is a complex and adaptive system by definition this system cannot be fully understood by examining its individual components new technologies are poised to reshape the global manufacturing landscape with important consequences for structural transformation growth and job creation the changing economics of production and distribution along with shifts in consumer demand and the emergence of smart products are pushing manufacturers to explore radically new ways of creating and capturing value only three companies in the world intel samsung and tsmc are capable of mass producing chips powerful and small enough for today s advanced mobile technologies covers the four basic manufacturing materials and all of the common manufacturing processes and systems supplies extensive instructor support material such as lecture slides a digital solutions manual to review and end of chapter problems and powerpoint and image galleries basically modern manufacturing methods boil down to three key concepts reduce waste reduce the amount of materials capacity and manpower wasted in the process by producing just enough product to meet current demand manufacturing is full of opportunities for abstract thought ideation and communication if you have an artistic talent and passion for connecting with people your unique ideas can help to solve problems that manufacturing is currently facing we present this compendium of all new articles organized around

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