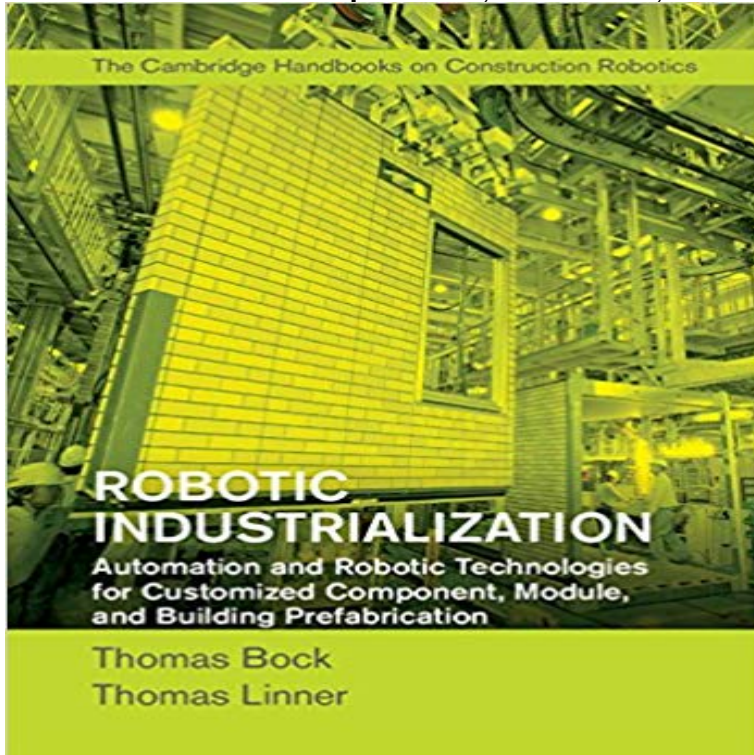


# Robotic Industrialization: Automation and Robotic Technologies for Customized Component, Module, and Building Prefabrication



The Cambridge Handbooks on Construction Robotics series discusses progress in robot systems theory and demonstrates their integration using real systematic applications and projections for off-site as well as on-site building production. In this volume, concepts, technologies, and developments in the field of building-component manufacturing - based on concrete, brick, wood, and steel as building materials and on large-scale prefabrication, which holds the potential to deliver complex components and products - are introduced and discussed. Building-component manufacturing refers to the transformation of parts and low-level components into higher-level components by highly mechanized, automated, or robot-supported industrial settings. The definitions of components are interpreted differently by different industries and even by individual companies; however, these definitions share a common element, that components are more or less a complex combination of individual preexisting parts and/or lower-level components. Pure building-component manufacturing can be distinguished from the transformation of raw materials into parts (such as the production of bricks or simple concrete blocks).

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