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an industrial control system ics is an electronic control system and associated instrumentation used for industrial process control control systems can range in size from a few modular panel mounted controllers to large interconnected and interactive distributed control systems dcss with many thousands of field connections some of the most common include supervisory control and data acquisition scada systems distributed control systems dcss programmable logic controllers plc and a handful of others read on to learn more about the eight main types of industrial control systems and what they do industrial control systems ics is a general term that refers to objects both physical and digital that regulate and manage the behavior of machines and machine processes in industrial systems they also are the means by which humans interface with machines in this article we will spotlight five predominant types of control systems and their key components and then we will delve into seven trends shaping the world of industrial control by understanding and leveraging these systems and trends engineers can optimize their projects resulting in more innovative and efficient solutions an industrial control system is a general term used to describe systems that are designed to monitor oversee manage and or support processes of critical infrastructure the series advances in industrial control aims to report and encourage tech nology transfer in control engineering the rapid development of control tech nology has an impact on all areas of the control discipline new theory new controllers actuators sensors new industrial processes computer methods 1 citations abstract in the operation of today s modern industrial society it is generally necessary to apply control to regulate optimize the outputs of the system in order to provide high quality outputs and to minimize the energy cost requirements for the system distributed observeridand thout end 2023-01-03 1/10 the kingsbridge novels

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