



The High Performance HMI Handbook: A Comprehensive Guide to Designing, Implementing and Maintaining Effective HMIs for Industrial Plant Operations

Bill Hollifield, Eddie Habibi, Dana Oliver, Ian Nimmo

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For almost thirty years, industrial processes have been controlled by people looking at computer screens. The displays used should provide the operator with accurate information, as well as assist in both normal plant operation and the handling of abnormal situations.

This goal is rarely achieved. In fact, poor Human-Machine Interfaces (HMIs) have been identified several times as contributing factors to major industrial accidents. Many of the paradigms commonly used in industrial display design yield far from optimum results.

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There has never been a comprehensive and detailed reference work covering the proper design of process control displays – until now. The High Performance HMI Handbook provides the background, the principles, and the detailed best practices for display design.

The HMI is the tool by which modern processes are operated. Without proper HMI design, safe and profitable operations are much less likely. The High Performance HMI Handbook is highly relevant to any organization concerned with industrial operations, automation, safety, and reliability. The proper principles are now in one place and available to all.

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