1. Record Nr. UNINA9911020212303321

Autore	Wang Lingfeng
Titolo	Modern industrial automation software design : principles and real-world applications / / Lingfeng Wang, Kay Chen Tan
Pubbl/distr/stampa	Piscataway, N.J., : IEEE Press Hoboken, N.J., : Wiley-Interscience, c2006
ISBN	9786610349739 9781280349737 1280349735 9780470361931 047036193X 9780471776284 0471776289 9780471776277 0471776270
Descrizione fisica	1 online resource (348 p.)
Altri autori (Persone)	TanK. C
Disciplina	629.89 670.427
Soggetti	Automatic control - Computer programs Computer software - Development Automation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface. -- Acknowledgments. -- Acroyms. -- Part I. Design Principles of Modern Industrial Automation Systems. -- 1. Introduction. -- 2. Virtual Instrumentation. -- 3. Component-Based Measurement Systems. -- 4. Object-Oriented Software Engineering. -- 5. Graphical User Interface Design. -- 6. Database Management. -- 7. Software Testing. -- Part II. Real-World Applications. -- 8. Overview. -- 9. An Object-Oriented Reconfigurable Software. -- 10. Flexible Measurement Point Management. -- 11. A Blending System Using Multithreaded Programming. -- 12. A Flexible Automatic Test System for Rotating Turbine Machinery. -- 13. An Internet-Based Online Real-Time

Condition Monitoring System. -- 14. Epilog. -- Index.

Sommario/riassunto

. The main subjects in this book relate to software development using cutting-edge technologies for real-world industrial automation applications. A hands-on approach to applying a wide variety of emerging technologies to modern industrial practice problems. Explains key concepts through clear examples, ranging from simple to more complex problem domains, and all based on real-world industrial problems. A useful reference book for practicing engineers as well as an updated resource book for researchers.