



Process Control Performance Assessment: From Theory to Implementation (Advances in Industrial Control)

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This book is a practical guide to the application of control benchmarking to real, complex, industrial processes. The variety of industrial case studies gives the benchmarking ideas presented a robust real-world attitude. The book deals with control engineering principles and economic and management aspects of benchmarking. It shows the reader how to avoid common problems in benchmarking and details the benefits of effective benchmarking.

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Editorial Review

Review

From the reviews:

Overall the book is well written. An excellent feature is that detailed step-by-step procedures are given, which can be a good user's guide. Extensive simulation and industrial examples are cited to illustrate the algorithms. This book provides a good balance between academic and engineering aspects. Academic researchers, graduate students and industrial practitioners, who are interested in the general areas of control performance monitoring, business performance benchmarking, control system or instrument problem diagnosis, will find this book a useful reference.

IEEE Transactions on Automatic Control (2008) (Reviewers: Biao Huang and Fei Qi)

"Part of Springer's Advances in Industrial Control series, Process Control Performance Assessment meets the objective of unifying past work in the title area. ... Overall the book accomplishes its ostensible purpose. ... the current piece is a nice addition to the process control library. Any interested academic researchers from this area should strongly consider purchasing it." (J. Douglas Barrett, *Technometrics*, Vol. 50 (1), 2008)

From the Back Cover

Process Control Performance Assessment is a practical guide to the application of control benchmarking to real, complex, industrial processes. It presents commercial solutions as well as current and future techniques still under development and contains real full-scale-implementation industrial case studies from the oil and gas, power and chemical industries providing a hierarchical perspective on benchmarks. The effect of benchmarking and control tuning on process performance and revenue optimisation is demonstrated.

The most frequently occurring practical issues associated with implementing benchmarking algorithms in industrial processes are discussed in detailed and concise terms and guidelines given for avoiding common problems. The impact of problems like valve stiction and plant-wide disturbances on process performance is reviewed and methods for diagnosing causative fault conditions suggested.

The benefit of non-intrusive and intrusive benchmarking techniques for optimising control systems using performance assessment and diagnostic tools is the potential to enhance company operational economics through increased throughput and better product quality. The book is appropriate for industrial and academic control and process engineers who wish to learn about methods of benchmarking through directed study or self study.

Advances in Industrial Control aims to report and encourage the transfer of technology in control engineering. The rapid development of control technology has an impact on all areas of the control discipline. The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control.

About the Author

Professor Johnson's academic career has concentrated on control engineering, theory and applications. He has significant industrial control applications and research experience. He is the author and co-author of books and papers on power generation, wastewater control, power transmission, and control benchmarking. Previous European Union project experience includes the ESPRIT Projects MARIE and IMPROVE and a joint Italian, Spanish and UK THERMIE Project. He has had a number of student projects in the area of assistive technology and has successfully trained over 40 engineers to PhD level in last 20 years. He is joint founding Series Editor to Springer-Verlag-London monograph series *Advances in Industrial Control* and also of the graduate text series *Advanced Textbooks in Control and Signal Processing*. He was an *Automatica* Associate Editor (1985-2002). His most recent textbook is *Control Engineering-An Introductory Course*, Palgrave Press, ISBN 0-333-77129-X co-authored with colleagues, Dr. Jacqueline Wilkie and Dr. Reza Katebi.

Professor Johnson retired from the University of Strathclyde in December, 2002 and was appointed Professor Emeritus of the University in April, 2003. Professor Johnson is a Member of the IEEE, a Fellow of the I. M. A., a Chartered Mathematician, a member and Director of the charity Deafblind Scotland and a member of the British Retinitis Pigmentosa Society.

Andrzej Ordys is the Manager of the Industrial Control Unit at the University of Strathclyde. He is a highly regarded control engineer having published and contributed to numerous papers and books. His work for Springer includes the previous *Advances in Industrial Control* monographs: *Modelling and Simulation of Power Generation Plants* and *Optimization of Industrial Processes at Supervisory Level*. He is a member of the Institution of Electrical Engineers, a Chartered Engineer and a member of the Institute of Electrical and Electronic Engineers (USA). He has written papers on benchmarking, modelling and simulation of power systems and on predictive control algorithms with application to power systems.

Users Review

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