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By Jay W. Carender



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This book is written for green and black belt level personnel in the manufacturing industry. Most examples are directed toward injection molding of thermoplastic parts. This 3rd Edition includes several error corrections from original 2003 edition, more direction and discussion, and pages from the Basic Statistics and SPC book never published previously. Topics include: understand and quantify variation, understand sources of variation, detailed discussion of variable control charts, detailed discussion of attribute control charts, learn how to perform Gage R&R & MSE (measurement system evaluation), learn six sigma techniques, calculate Cpk, Ppk, understand Z-score math, calculate and perform correlation analysis, single & multi regression analysis to create predictive equations, use predictive regression equations to nominalize or improve dimensions, DOEs, ANOVA, COV (components of variance) - how to quantify % each, SQC, effective control charts, sub-grouping strategy, real time SPC, process mapping, process qualification & validation, nominalization, create scorecards to track performance, and more. This 3rd Edition has been reformatted at 5.5 inches wide x 8.5 inches tall in 2012 for print sales.



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Editorial Review

About the Author

The author - Jay Carender: • Hands on processing skills, • Mold build/mold design & engineering knowledge, • Degree in Mechanical Engineering from GMI (General Motors Institute of Technology ... now known as Kettering University), • DOE Training from Stat-Ease, Inc., • SPC Training from University of Tennessee Management Development Center, • SPC Training from ASQC, • Black Belt from AIT (Advanced Integrated Technologies), • Productivity and Quality Improvement Training by Dr. Deming, • Mold Design & Advanced Mold Design Training from New York University ... taught by John Klees Enterprises, • Multiple courses on processing from RJG Industries, Inc., • Owner of Advanced Process Engineering - company started in 1990 to create and market pocket sized reference booklets for injection molding industry. Six booklets written & published along with other training manuals. The hands on experience is from various fortune 500 companies performing injection molding. The extensive experience includes: • Hot runner molding, • High cavitation molds, • High speed molding with cycle times less than 5 seconds, • Stack molds, unscrewing molds, core pulls, slides, close tolerance parts, • Engineering resins, • SPC, • Statistics, • DOE to effect process improvement and dimensional nominalization.

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