



Geometric Dimensioning and Tolerancing-Applications, Analysis & Measurement [per ASME Y14.5-2009]

By James D. Meadows

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This textbook/handbook is written to explain the new ASME Y14.5-2009 standard and is co-published by ASME. This is one of the most comprehensive GD&T volumes ever written and has the unprecedented ability to cover almost every facet of dimensioning and tolerancing. It includes step-by-step procedures for dimensioning and tolerancing parts and assemblies. It shows how to analyze the tolerances applied using both worst case and statistical analysis. This book demonstrates the connection between the application of functional geometric tolerances and its effect on manufacturability and inspection, stressing optimal ways to achieve a high-quality product at the lowest possible cost to the customer. Some of the topics covered are: 1) All of the new symbols, rules and principles in ASME Y14.5-2009, 2) Basic and Advanced GD&T Application and Interpretation, 3) Tolerance Stack-Up Analysis, 4) Statistical Tolerancing, 5) Inspection and Gauging.

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Editorial Review

About the Author

James D. Meadows is an ASME Certified Senior Level Geometric Dimensioning and Tolerancing Professional. He has been a full-time GD&T trainer and consultant since 1982. He has written ten other best-selling GD&T books, six of which explain the ASME Y14.5M-1994 standard. Now he has written three new books to explain the ASME Y14.5-2009 Dimensioning and Tolerancing standard and created a 'New Rules' [per ASME Y14.5-2009] DVD Training Series. He is nationally and internationally recognized as a GD&T expert and is an active member of 12 ASME/ANSI/ISO standards committees, such as the Y14 Main Committee. He is a knowledgeable and dynamic communicator, both in print and in person, and has trained thousands of engineering and technical professionals for major corporations, universities, DOE, DOD, NASA and the military.

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