



GD&T Update Guide: ASME Y14.5-2009 - Changes, Improvements, and Clarifications

Bryan R. Fischer

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The *GD&T Update Guide: ASME Y14.5-2009* is the definitive reference covering the changes and improvements in the ASME Y14.5-2009 standard. The book includes over 220 full-color high-quality 2D and 3D figures. The material is explained carefully and clearly, presented from multiple points of view, and supported by multiple examples. Many of the concepts are presented using figure sequences constructed to explain each step of a process, including many examples of datum feature simulation sequences and gaging. 3D model-based engineering and 3D-GD&T examples are included, explaining the role of and coordinating with the ASME Y14.41-2003 standard.

The *GD&T Update Guide* provides a detailed explanation of the changes in the structure, philosophy, expansion of scope, and the overall intent of the ASME Y14.5-2009 standard. New terms, definitions, symbols, rules, feature types, tools, techniques, approaches, and changes made to each section of the standard are discussed in detail. The book is structured to be easy-to-use and a handy reference. Each topic is presented in a separate section. The book is well organized with the reader in mind.

The book includes four appendices. Appendices 1-3 explain datum reference frames, datum features, datum feature simulation, degrees of freedom, and new specification techniques in great detail. Appendix 4 includes a detailed paragraph-by-paragraph explanation of the principal changes in ASME Y14.5-2009, commentary about how well each change was implemented, and offers caution where appropriate.

The *GD&T Update Guide* is an essential reference for everyone who needs to understand the ASME Y14.5-2009 standard, and will become a trusted resource for understanding GD&T. Recommended for design engineers, quality engineers, dimensional engineers, designers, drafters, CAD operators, inspectors, gage makers, tool and die makers, machinists, fabricators, technicians, service personnel, students, GD&T specialists, tolerance analysts, checkers ... anyone who needs to understand GD&T!

Author's Note: I wrote this book to clearly explain the changes and improvements found in the ASME Y14.5-2009 standard. The material carefully balances theory with practical examples and applications. The content is arranged to be easy-to-read and easy to understand. My goal was to make a high-quality, useful, and easy-to-understand reference. Similar to my other books, the material is presented from a multidisciplinary point of view, helping to bring design, manufacturing, inspection, assembly, and service together.

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