Applied Geometrics, Inc.

GD&T: Theory to Reality

www.GDandT.com

Advanced Geometric Dimensioning & Tolerancing (GD&T)

Per ASME Y14.5-2018

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Forward

This text covers the more advanced concepts and rules of GD&T per the ASME Y14.5-2018 standard. Determining which topics and information within the Y14.5 standard should be categorized as, “fundamental” versus, “advanced” is very subjective. We, at Applied Geometrics, have divided our text materials into our, “Fundamentals of GD&T” and this, “Advanced GD&T” texts in what we feel is a logical manner based on our experience in industry, both as users of and as educators in the Y14.5 and related standards. This text reviews the fundamentals-level material, but dives even deeper into those concepts than was covered in our “Fundamentals of GD&T” text, and then we explore topics and rules that, while perhaps common needs in industry, are more complex and difficult for the learner to initially comprehend and understand. As always, our focus remains educating the learner in the technical topics with the end goal being practical application and proper interpretation.

Applied Geometrics has written this text to use the same language found in the ASME Y14.5-2018 standard, but with “plain” language added to help the learner fully comprehend the subjects. Our goal is two-fold. We want users to both be able to read and understand the standard technically, for example, for passing the GDTP certification exam, but also to be able to use the standard effectively in real life.