



# Dimensional Management: A Comprehensive Introduction

By Mark Curtis

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A complete treatise on the subject of dimensional management, this book is designed to provide the reader with a comprehensive systems approach to all facets of dimension and tolerance development, analysis, inspection and documentation. Often referred to as “Dimensional Management,” this systems approach focuses on optimizing the interchangeability of multi-component manufactured products. And it demonstrates that through the detailed description of known manual and computer-aided tolerance analysis techniques, an understanding of manufacturing variation and the mitigation of its undesirable effects can be achieved. College-level engineering and technology students and working professionals involved in the design and manufacture of precision parts and assemblies will come to rely on Dimensional Management as an invaluable resource.

- Provides a complete treatment of all aspects of dimensioning and tolerancing as it relates to the design and manufacturing.
- Contains more than 125 detailed illustrations and tables.
- Features an entire chapter devoted to state-of-the-art computer-aided tolerance techniques.
- Includes a CD-ROM that demonstrates a family of Sigmund software products through a detailed user-friendly Power Point presentation. These proprietary computer-aided tolerancing products were developed and are sold by Varatech Engineering Consultants, and are quite possibly the most refined and powerful software of their type available on the market today.
- Includes a comprehensive chapter on GD&T as specified in the national dimensioning and tolerancing standard, ASME Y14.5M 1994.

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#### **About the Author**

A highly regarded and esteemed teaching professional, Dr. Mark A. Curtis began his career at Eaton Corporation where he gained significant industrial experience in tool design, inspection, manufacturing engineering, supervision, and product design. After 10 years he became a professor at the College of Technology at Ferris State University, where one of his most important achievements included launching a new baccalaureate degree program in Product Design Engineering Technology. While there, he was named Distinguished Teacher of the Year and was honored by the Michigan Association of Governing Boards of State Universities as a Distinguished Faculty. After 17 years in academia, he assumed the position of Vice President of Engineering at Millennium Plastics Technologies, LLC, where he was put in charge of all engineering functions, systems, and personnel. Dr. Curtis returned to teaching in 1999 at Northern Michigan University as Dean of the College of Technology and Applied Sciences and Professor of Industrial Technologies. Most recently, he assumed responsibility for all two-year certificate and diploma programs when he was given the added title of Assistant Provost for Community College Programs.

Dr. Curtis has authored and illustrated two college-level textbooks, as well as completed an extensive revision of the Handbook of Dimensional Measurement, 3rd Edition. Additionally, he has administered expansive in-plant training and consulting on GD&T and dimensional measurement. Nationally recognized for his work in design and manufacturing, Dr. Curtis has been named in several Marquis' Who's Who biographical listings and in 1997 he completed a management development program at Harvard University.

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