



Geo-Metrics III: The Application of Geometric Dimensioning and Tolerancing Techniques (Using the Customary Inch Systems) (Vol 1)

By Lowell W. Foster

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Geo-Metrics III is an extensively revised edition of a book on geometric dimensioning and tolerancing, the technical drawing language for designing and manufacturing component parts of a mechanical product. This edition takes its reference from the content of the ANSI/ASME Y14.5M standard as well as harmonizing with the principles of related ISO international standards. Geo-Metrics III is a guide and reference for anyone involved in engineering design, drafting, manufacturing, quality and verification of product.

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Editorial Review

From the Back Cover

Geo-Metrics III is an extensively revised edition of the most respected and widely-read book on geometric dimensioning and tolerancing, the technical drawing language for designing and manufacturing component parts of a mechanical product. Completely up to date, this new edition takes its reference from the content of the latest ANSI/ASME Y14.5M standard as well as harmonizing with the principles of related ISO international standards. It is also supportive of the ISO 9000 series of international standards policies and directives.

Geo-Metrics III is an indispensable guide and reference for anyone involved in engineering design, drafting, manufacturing, quality, and verification of product. In it you will find the state-of-the-art in the principles and techniques of engineering design specification, with comprehensive coverage of such topics as:

- Geometric characteristics and symbols
- Datums and their application
- Tolerances of form, orientation, profile, runout, location, and their application
- The material condition principles MMC, LMC, and RFS, and their application

...and much more.

This new edition focuses on important aspects of the latest standards and the ability to represent "function and relationship" of part feature requirements which engineers have envisioned but cannot explicitly state in drawings. In addition, **Geo-Metrics III** emphasizes the need for recognition of the emerging international standards which are so important in present-day global communication.

The author's experience and insight, evident throughout the book, will lead you to a deeper understanding of the rationale behind the standards, enabling you to apply them more effectively in your work. The principles in **Geo-Metrics III**, combining the latest standards and techniques of modernized engineering product specification, facilitate clear communication through the process of design, manufacturing, assembly, and verification while promoting reduced costs and higher quality.

For those companies that have not yet adopted the latest ANSI standards, these reference guides are still available:

Geo-Metrics II: The Application of Geometric Tolerancing Techniques (Using the Customary Inch System), Revised 1986 Edition

ISBN 0-201-11527-1 * Paperback * 336 pages * (c)1986

Geo-Metrics: The Metric Application of Geometric Tolerancing Techniques, Revised 1986 Edition

ISBN 0-201-11526-3 * Paperback * 336 pages * (c)1986

Pocket guide versions of **Geo-Metrics II** and **Geo-Metrics III** are also available. These handy guides

increase the usability of this information on the manufacturing floor and serve as a quick reference to ANSI standards. These pocket guides are easy to carry and contain the crux of geometrics.

A Pocket Guide to Geo-Metrics III: Dimensioning and Tolerancing (Using the Customary Inch System), 10 pack

ISBN 0-201-63478-3 * Paperback * 36 pages * (c)1995

A Pocket Guide to Geo-Metrics III: Dimensioning and Tolerancing, Metric Version, 10 Pack

ISBN 0-201-63476-7 * Paperback * 36 pages * (c)1995

A Pocket Guide to Geo-Metrics II: Dimensioning and Tolerancing (Using the Customary Inch System), 10 pack

ISBN 0-201-11840-8 * Paperback * 32 pages * (c)1987

A Pocket Guide to Geo-Metrics II: Dimensioning and Tolerancing, Metric Version, 10 pack

ISBN 0-201-11842-4 * Paperback * 32 pages * (c)1987

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About the Author

Lowell W. Foster is president and director of Lowell W. Foster Associates, Inc., a consulting firm serving clients around the world in technical management, consulting, and training matters. He continues his life-long involvement in all national and international standards committee developments for geometric dimensioning and tolerancing.

His distinguished career spans more than 45 years, from his beginning as a tool designer through various technical and management positions in the areas of product design, process, production, quality control, and standardization. He has been deeply involved in numerous boards and standards committees on engineering drawing and related practices, and has received several awards and honors from schools, organizations, and colleagues.

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This text has been prepared to promote worldwide use of geometric dimensioning and tolerancing and to upgrade knowledge on the subject. Its title *Geo-Metrics III* attempts to represent and encourage the giant stride being taken by United States industry in its transition toward greater use of national and international standards on this subject. This text also aspires to be of value to all users worldwide as a catalyst for better understanding and to improve the state of the art. This text is a revised and expanded version of its predecessor *Geo-Metrics II*.

Another major objective of this text is to promote and encourage use of the principles involved as an effective engineering, production, and quality-control language or tool which can provide economic and technical advantages.

To further the foregoing objectives, this text is therefore presented in a format suitable for use as a teaching mechanism, both for the classroom and in-industry situations, as well as for providing a daily ready reference for engineering or production work. ***Geo-Metrics III*** is dedicated to the promoting of standardization of engineering drawing techniques in support of the American National Standard "Dimensioning and Tolerancing," ANSIASME Y14.5M-1994. This text is also dedicated to furthering worldwide efforts through the International Standards Organization (ISO) and its standards and programs (e.g., ISO/TC10/SC5 "Geometrical Dimensioning and Tolerancing"). To this end, this text attempts to extend the principles of the current standards both national and international, into a harmonization of practices that reflect the imminent international state-of-the-art. See the Introduction of this text for further details on the harmonization of concepts and standards on this subject.

The data contained in this book must be considered advisory and are to be used at the discretion of the reader. As a new feature of this book, "author advisory" comments are inserted at various places in the text. These offer "rules of thumb," helpful hints, suggestions, etc., as based upon the author's experience and assist the reader in determining options and making choices. All such comments adhere within the spirit and sense of the governing standards while refining the content of those standards.

The author wishes to express his gratitude to his many colleagues and professional friends in this field of endeavor around the world who also have made contributions to the state of the art. He also wishes to give credit to the reference documents listed and to those responsible for them.

Finally, the author wishes to express particular gratitude to his wife, Marion, daughter, Janette, and son, John, for their assistance, patience, and understanding for enduring the often untimely sacrifices of family together time. Without their encouragement and support, this work could not have been completed.

*Minneapolis, Minnesota
August 1993
L.W.F.*

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Users Review

From reader reviews:

Raymond Garza:

This book untitled ***Geo-Metrics III: The Application of Geometric Dimensioning and Tolerancing Techniques (Using the Customary Inch Systems)*** (Vol 1) to be one of several books that best seller in this year, honestly, that is because when you read this guide you can get a lot of benefit on it. You will easily to buy this specific book in the book retail outlet or you can order it by using online. The publisher of this book sells the e-book too. It makes you easier to read this book, because you can read this book in your Smart phone. So there is no reason to you personally to past this e-book from your list.

Elizabeth Branch:

The publication untitled ***Geo-Metrics III: The Application of Geometric Dimensioning and Tolerancing***

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Leonard Santiago:

In this particular era which is the greater man or woman or who has ability in doing something more are more important than other. Do you want to become one of it? It is just simple way to have that. What you need to do is just spending your time almost no but quite enough to get a look at some books. One of many books in the top listing in your reading list is definitely Geo-Metrics III: The Application of Geometric Dimensioning and Tolerancing Techniques (Using the Customary Inch Systems) (Vol 1). This book and that is qualified as The Hungry Inclines can get you closer in turning out to be precious person. By looking upward and review this reserve you can get many advantages.

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