

**PUBLICATIONS OF THE
CENTER FOR
MANUFACTURING
ENGINEERING
COVERING THE PERIOD
JANUARY 1978 -
DECEMBER 1988**

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Asenath Weaver
Joan Wellington
Linda Wood**

**U.S. DEPARTMENT OF COMMERCE
National Institute of Standards
and Technology
National Engineering Laboratory
Center for Manufacturing Engineering
Gaithersburg, MD 20899**

**U.S. DEPARTMENT OF COMMERCE
Robert A. Mosbacher, Secretary
NATIONAL INSTITUTE OF STANDARDS
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NIST

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The Omnibus Trade and Competitiveness Act of August 23, 1988 changed the name of the National Bureau of Standards to the National Institute of Standards and Technology and expanded NIST's mission. Listings in this publication which have the prefix "NBS" were approved for publication before August, 1988. Those with the prefix "NIST" were approved after that date.

INTRODUCTION

The mission of the Center for Manufacturing Engineering (CME) is to bring the resources of the National Institute of Standards and Technology to bear on the standards and measurement problems associated with America's discrete parts manufacturing.

To fulfill this mission, CME conducts active programs of research in the areas of:

- o High precision dimensional measurement and precision engineering;
- o Robotics and intelligent machines;
- o Manufacturing data description, data administration, and information processing; and
- o Sensors for manufacturing processes.

In addition, CME provides technical support for joint industry committees which are developing voluntary standards for measurements, measurement techniques, and interfaces and maintains the national standards for length, force, and a number of subsidiary standards. It offers primary calibration services for these standards.

This list of publications reflects the diversity of scientific and technical problems which have been attacked over the past ten years in fulfillment of the Center's mission. Publications listed in this document which do not relate to CME's mission were written during the last ten years by members of the Center while employed in other areas of NIST. These publications, like those related to the Center's mission, reflect the wide background and knowledge base of members of the Center.

Papers, articles, and books appear in the list in alphabetical order by the last name of the first author. Each entry is keyed by the initial letters of the last name of this first author and is numbered in chronological order by publication date. Publications are also cross-referenced by their secondary authors.

This edition of the Publications of the Center for Manufacturing Engineering covers the period January, 1978 through December, 1988. It supersedes the previous edition and its supplements and includes the listings from all of them. Where updated publication data is available for a previous listing, the revised entry is marked (*) in this edition. A subject index follows the list of publications. Publications approved after December, 1988 are listed in a follow-on publication.

The interested reader can obtain copies of publications from commercial publications sources such as the National Technical Information Service, university or reference libraries, or from the individual authors by writing to them in care of the Center for Manufacturing Engineering.

PUBLICATIONS
of the
CENTER FOR MANUFACTURING ENGINEERING
COVERING THE PERIOD
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Abrishamian, A.

-- SEE McC3

Adler, L.

-- SEE GOL4

Aggour, M. S.

-- SEE YANG4

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