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PUBLICATIONS OF CENTER FOR MANUFACTURING ENGINEERING 1978-1983

Philip Nanzetta
Joan Wellington

March 1984



U.S. DEPARTMENT OF COMMERCE, Malcolm Baldrige, Secretary
National Bureau of Standards, Ernest Ambler, Director

ACKNOWLEDGMENTS

Special thanks are due to Ms. Debbie Knight and Mrs. Charity Lancaster for their excellent work in soliciting, organizing, and copy editing the entries in this manuscript and the Center for Building Technology's Word Processing Center for the typing preparation of this manuscript.

INTRODUCTION

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

In fulfillment of its mission, the Center for Manufacturing Engineering conducts active programs of research in the areas of:

- High precision dimensional measurement.
- Sensing and measurement of force, mass, sound, vibration, and surface finish characteristics.
- Application of advanced controls and sensing techniques to automated machines, manufacturing systems, and robot manipulators.

This list of publications from the Center for Manufacturing Engineering (and its precursors) reflects the diversity of scientific and technical problems which have been attacked over the past five years in fulfillment of its mission. The list reflects the evolving needs of American industry for support of measurements and standards in nascent areas of flexible or computer managed automation.

Publications listed in this document which do not relate to the mission of the Center for Manufacturing Engineering were written during the last five years by present members of the Center while employed elsewhere. These publications, like those related to the Center's mission, reflect the wide background and knowledge base of current members of the Center.

Papers, articles, and books appear in the following 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 numbered in chronological order by publication date. Publications are also cross-referenced by their secondary authors.

A subject index follows the list of publications.

We suggest that the interested reader obtain publications from commercial publications sources such as the National Technical Information Service, universities or reference libraries, or from an individual author by writing to him or her in care of the Center for Manufacturing Engineering.

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AL6, AL10, AL15, BARB2, BLO01-4, CHA1, GE1-3, HOC8, HOP1, KEL1, McL1-3, MIL1-3, NAU1, SC01, SIMP3-5, SM1-10, VAN2, WE1, YE4-7.

METROLOGY

BART1-4, BEE1-4, BERG1, BI1-5, BLE1-21, BLOM1, BRA1, BREN1, BURN1-8, CHW1-5, COO1, COR3-8, CUL1-3, DO2, EI1-18, ELB1, FA1-2, FIC1-4, FL2-3, FL5, GOL1-5, GREEN1, GREENS1-7, HAI1-3, HE4-5, HOC1-2, HOC4, HOC7, HOP1, HSI-9, HS11, JEN1-3, JONE1, KN1, KO1, KUH1-4, Leel-2, LET1-3, MAG1, MAG4, MARX2-9, MILLE1-2, NAD1, NE1, NE3-5, NE7-8, PALM1, PAY1-7, PO1-2, PRI-3, PR5-9, RIN1, ROSE1-6, SA1-3, SER1-2, SER4, SER6, SIMP1, SU1, SW1-11, TE1-4, TE6, TE8-11, TS1, TU1, VAR1, VOR1-8, YAN13, YO1.

PRECISION ENGINEERING

BLE18, CHU1, HOC5-7, HS10, PR4, SER3, SER5, TE5, TE7, TE12.

ROBOTICS

AL1-9, AL11-14, AL16-17, AL-19-20, BARB1-2, DA5, DA8, GE1-3, KEN1-4, KI6-7, MAN4, MY7, SIMP2-3, VAN1, WHEA1.

U.S. DEPT. OF COMM. BIBLIOGRAPHIC DATA SHEET (See instructions)	1. PUBLICATION OR REPORT NO. NBSIR 84-2840	2. Performing Organ. Report No.	3. Publication Date March 1984
4. TITLE AND SUBTITLE Publications of the Center for Manufacturing Engineering 1978-1983			
5. AUTHOR(S) Philip Nanzetta, Joan Wellington			
6. PERFORMING ORGANIZATION (If joint or other than NBS, see instructions) NATIONAL BUREAU OF STANDARDS DEPARTMENT OF COMMERCE WASHINGTON, D.C. 20234		7. Contract/Grant No.	8. Type of Report & Period Covered Bibliography
9. SPONSORING ORGANIZATION NAME AND COMPLETE ADDRESS (Street, City, State, ZIP) Center for Manufacturing Engineering National Bureau of Standards Washington, DC 20234			
10. SUPPLEMENTARY NOTES <input type="checkbox"/> Document describes a computer program; SF-185, FIPS Software Summary, is attached.			
11. ABSTRACT (A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here) A list of publications by staff of the Center for Manufacturing Engineering for the period 1978-1983, indexed by subject area. Publications cover research done by the Center in the areas of high precision dimensional measurement; sensing and measurement of force, mass, sound, vibration, and surface finish characteristics; and application of advanced controls and sensing techniques to automated machines, manufacturing systems and robot manipulators.			
12. KEY WORDS (Six to twelve entries; alphabetical order; capitalize only proper names; and separate key words by semicolons) automation; bibliography; engineering; manufacturing; metrology; precision; publications; robotics			
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