

PACKAGE ID - 000639IBMPC00 MCCAT

KWIC TITLE - Measurement Control Charts and Tests

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LIMITATION CODE -UNL **AUDIENCE CODE** - UNL

COMPLETION DATE - 11/01/1987 **PUBLICATION DATE** - 11/01/1987

DESCRIPTION - MCCAT (Measurement Control Charts and Tests) is a menu-driven program used for analysis of data obtained by periodic measurement of a standard with an instrument. Control charts are produced for analysis of bias, group standard deviation, and group means. Page's test statistics are computed and plotted for analysis of trends. Statistical tests are done for randomness and normality. A report is generated listing all data, group parameters, and overall parameters. Functions are available to set data point flags (delete or activate data points), to initialize (create) a new data file, and to change the standard, standard parameters, Page's test parameters, or the date window.

PACKAGE CONTENTS - Software Abstract; Media Directory; Media Includes Source Code, Object, Executable, Sample Problem, Auxiliary Information, Machine-Readable Documentation, Control Information;

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - 1 5.25 Diskette

METHOD OF SOLUTION - The randomness test uses the von Neumann ratio, and the normality test uses the Shapiro-Wilks statistics.

COMPUTER - IBM PC

OPERATING SYSTEMS - MS-DOS 2.1

PROGRAMMING LANGUAGES - BASIC

SOURCE CODE AVAILABLE (Y/N) - Y

OTHER PROG/OPER SYS INFO - The MCCAT source is compatible with both IBM BASIC and Microsoft QuickBASIC 1.0. However, MC.OBJ and MC.EXE modules, which were created with Microsoft QuickBASIC 1.0, require the QuickBasic run-time libraries, BCOM10.LIB and BRUN10.LIB.

HARDWARE REQS - IBM PC with color monitor and graphics board.

REFERENCES - MCCAT, NESC No. 9587, MCCAT Flexible Disk Cartridge Description, National Energy Software Center Note 88-19, November 30, 1987.

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ABSTRACT STATUS - Abstract first distributed November 1987. IBM PC
version submitted May 1987.

SUBJECT CLASS CODE - P

KEYWORDS -
COMPUTER PROGRAM DOCUMENTATION
M CODES
DATA ANALYSIS
DIAGRAMS

EDB SUBJECT CATEGORIES -
990200

SPONSOR - DOE/DP

PACKAGE TYPE - AS - IS