

PACKAGE ID - 000241IBMPC00 DEM4-26

KWIC TITLE - Deming's General Least Square Fitting

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

COMPLETION DATE - 10/01/1988 **PUBLICATION DATE** - 03/01/1988

DESCRIPTION - DEM4-26 is a generalized least square fitting program based on Deming's method. Functions built into the program for fitting include linear, quadratic, cubic, power, Howard's, exponential, and Gaussian; others can easily be added. The program has the following capabilities: (1) entry, editing, and saving of data; (2) fitting of any of the built-in functions or of a user-supplied function; (3) plotting the data and fitted function on the display screen, with error limits if requested, and with the option of copying the plot to the printer; (4) interpolation of x or y values from the fitted curve with error estimates based on error limits selected by the user; and (5) plotting the residuals between the y data values and the fitted curve, with the option of copying the plot to the printer. If the plot is to be copied to a printer, GRAPHICS should be called from the operating system disk before the BASIC interpreter is loaded.

PACKAGE CONTENTS - NESC Note; Software Abstract; LA-11082-MS, Rev.1;
Media Includes Source, Executable, Machine Readable Documentation;

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - 1 5.25 Diskette

COMPUTER - IBM PC

OPERATING SYSTEMS - DOS 2.11,3.2

PROGRAMMING LANGUAGES - Microsoft QuickBasic 4.0

SOURCE CODE AVAILABLE (Y/N) - Y

HARDWARE REQS - 64 Kbytes

REFERENCES - P.M. Rinard and A. Goldman, A Curve-Fitting Package for Personal Computers, LA-11082-MS, Rev. 1, March 1988; DEM4 26, NESC No. 9681, DEM4 26 Flexible Disk Cartridge Description, National Energy Software Center Note 89-03, October 24, 1988.

ABSTRACT STATUS - Abstract first distributed December 1985. IBM PC version of DEM3 06 submitted October 1985, replaced October 1988

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ABSTRACT STATUS - (CONT) by DEM4 26, sample problem executed by NEADB
February 1989 on an IBM PC/AT.

SUBJECT CLASS CODE - P

KEYWORDS -

COMPUTER PROGRAM DOCUMENTATION
D CODES
LEAST SQUARE FIT
INTERPOLATION
COMPUTER GRAPHICS

EDB SUBJECT CATEGORIES -
990200

SPONSOR - DOE/DP

PACKAGE TYPE - SCREENED