PACKAGE ID - 001179IBMPC00 FCM

KWIC TITLE - Factory Cost Model

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DESCRIPTION - The Factory Cost Model (FCM) is an economic analysis tool intended to provide flat panel display (FPD) and other similar discrete component manufacturers with the ability to make first-order estimates of the cost of unit production. This software has several intended uses. Primary among these is the ability to provide first-order economic analysis for future factories. Consequently, the model requires a minimal level of input detail, and accomodates situations where actual production data are not available. This software is designed to be activity based such that most of the calculated direct costs are associated with the steps of a manufacturibg process. The FCM architecture has the ability to accomodate the analysis of existing manufacturing facilities. The FCM can provide assistance with strategic economic decisions surrounding production related matters. For instance, the program can project the effect on costs and resources of a new product's introduction, or it can assess the potential cost reduction produced by step yield improvements in the manufacturing process.

PACKAGE CONTENTS - Media Directory; Software Abstract; User's Guide; Media Includes Object Library, Executable Module, Auxiliary Material, Sample Problem Input and Output;

SOURCE CODE INCLUDED? - No

MEDIA QUANTITY - 3 3.5 Diskettes

METHOD OF SOLUTION - The FCM is an expected value model. Data for the model are based on user-supplied inputs the process steps, equipment (tools), materials and labor used in a manufacturing process. These data are then summed for the respective resources and allocated to each individual product modeled. Costs are then derived for each process step, equipment type used in the process, etc as appropriate. For further details refer to the software User's Guide.

COMPUTER - IBM PC

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OPERATING SYSTEMS - Windows 3.1, Windows NT 4.0, Windows 95

PROGRAMMING LANGUAGES - Microsoft FoxPro 2.6

SOFTWARE LIMITATIONS - Disk space is a limiting factor. Large cases for the program may require 40-60 MB of hard drive space.

SOURCE CODE AVAILABLE (Y/N) - N

UNIQUE FEATURES - Data files may be imported and exported into/out of the model in a variety of program types.

RELATED SOFTWARE - Spreadsheet software such as Lotus 123 or Excel can be used in conjunction with the FCM for viewing and editing export data files. AllClear v3.51 can be used with the FCM for viewing a process flow chart of the manufacturing process created within the model.

HARDWARE REQS - 16 MB RAM, 100 MB free disk space, 486-66 MHz processor or faster, 3.5 disk drive.

TIME REQUIREMENTS - Estimated time to execute full calculations for a 200-step product on a Pentium PC is 2 minutes.

REFERENCES - T. Bomber, D. Lauben, K. Boom, J. Baxter, P. Keegan, S. Spahr, and K. Shuldberg, Factory Cost Model for Flat Panel Display Manufacturing User's Guide, March 18, 1996.

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SUBJECT CLASS CODE - Z

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