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2013, February

Pflug, Irving J.: (2013). General Method of Process Evaluation. Environmental Sterilization Laboratory, Otterbein, IN 47970

Abstract

This is a book on how to use the General Method of Process Evaluation to calculate a steam sterilization ($F_{121.0^{\circ}\text{C}}$) value. "General Method of Process Evaluation" is a generic term used throughout the microbial-control industry. It originated with Bigelow in 1920, (Bigelow, W. D., Bohart, G. S., Richardson, A. C., and Ball, C. O. [1920] Heat penetration in processing foods, *NCA Bull.* 16L).

The purpose of the book is to lead students through, in a stepwise manner, the evaluation of a sterilization process to be carried out in a steam autoclave, for a set of microbial-destruction data that leads to an $F_{121.0^{\circ}\text{C}}$ value.

This is a how-to book that has examples and solutions for both "beginners" and "advanced students." Single condition problems are covered in the first part in pages 1 to 5.6. In the last part of the book, pages 9.1 through 9.16, the student is walked through a complete problem, with all the several steps necessary to arrive at a sterilization process $F_{121.0^{\circ}\text{C}}$ -value.

The pagination of the book is unique: the first part is pages 1 through 6; the last part is pages 9.1 to 9.16.