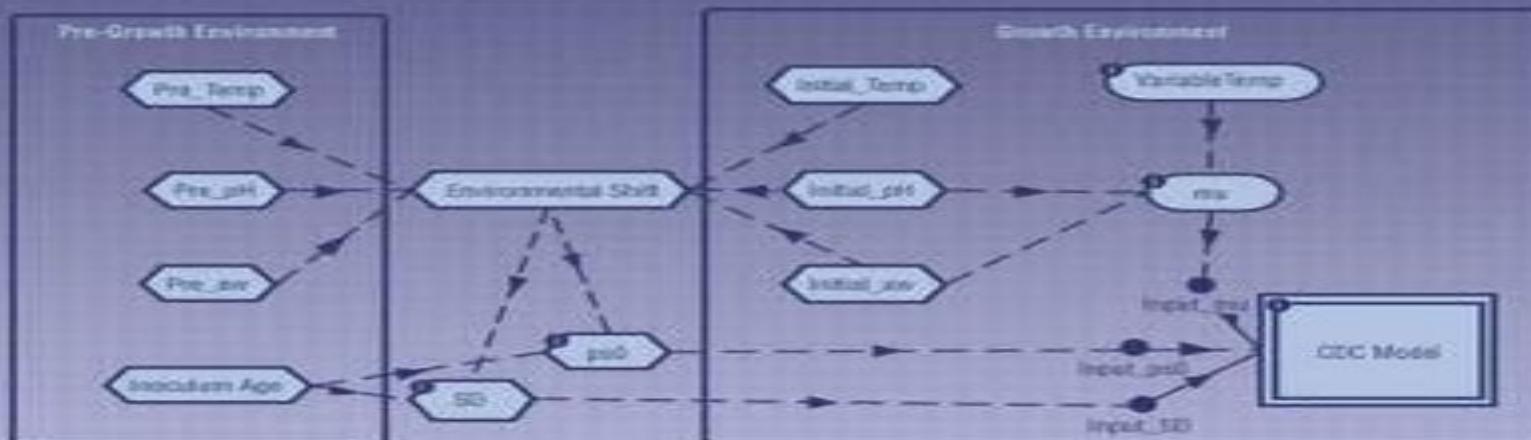


CRC Series in
CONTEMPORARY FOOD SCIENCE

MODELING MICROBIAL RESPONSES in FOOD



Edited by
Robin C. McKellar
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Modeling Microbial Responses In Food Contemporary Food Science

Martinus A.J.S. van Boekel

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Fernando Perez-Rodriguez,Antonio Valero,2012-12-12 Predictive microbiology is a recent area within food microbiology which studies the responses of microorganisms in foods to environmental factors e g temperature pH through mathematical functions These functions enable scientists to predict the behavior of pathogens and spoilage microorganisms under different combinations of factors The main goal of predictive models in food science is to assure both food safety and food quality Predictive models in foods have developed significantly in the last 20 years due to the emergence of powerful computational resources and sophisticated statistical packages This book presents the concepts models most significant advances and future trends in predictive microbiology It will discuss the history and basic concepts of predictive microbiology The most frequently used models will be explained and the most significant software and databases e g Combase Sym Previus will be reviewed Quantitative Risk Assessment which uses predictive modeling to account for the transmission of foodborne pathogens across the food chain will also be covered

The British National Bibliography Arthur James Wells,2006

Predictive Microbiology Thomas Alexander McMeekin,1993 Four authors with backgrounds in food microbiology food chemistry mathematics and statistics explain how techniques of predictive microbiology can allow an objective evaluation of the effects of processing distribution and storage on the microbiological safety and quality of foods The trick is to understand the microbial ecology of a process or of a food at a particular point in the chain then use mathematical relationships between microbial growth and the expected environmental conditions to predict the growth or survival of selected organisms

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American Dietetic Association,1993 **Modeling Microbial Responses in Food** Robin C. Mckellar (ed),2023

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