



Military Food Engineering and Ration Technology

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Military Food Engineering and Ration Technology By edited

Systematic synthesis of U.S. military's food product development, processing, packaging, testing, and distribution methods. Provides technical data for lightweighting, nutrient optimization, shelf-life extension, ready-to-eat, and self-heating foods

----- Written by a team from the U.S. Army's Combat Feeding Directorate at the Natick Research, Development and Engineering Center, this technical volume represents a comprehensive guide to how the military designs, processes, customizes, packages and distributes highly palatable, long shelf-life food products for field personnel. The book offers new data on numerous technologies used to solve problems such as nutrient densification, lightweighting, novel thermal processing, and long-term quality preservation in delivering appetizing foods. Testing techniques are explained for evaluating sensory qualities of foods and their effects on physical and cognitive performance.

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Editorial Review

Review

This book is valuable for food professionals, including both R&D and those interested in the history and development of food processing, food equipment, and food evaluation. Each chapter is comprehensively referenced, and one important feature of the book is the inclusion of many references that are not generally available to the public. These include internal government reports, contractor, reports, and conference presentations. The book reviews and summarizes much of this work. --Herbert L. Meiselman, Ph.D., editor, Journal of Food Quality and Preference

.....This book highlights what the DoD CFD and associated laboratories located at the Natick Soldier Center do to maintain and optimize Warfighter performance their mission provide the best possible rations to the Warfighter.

This book provides a thorough overview of the depth of research and support offered over the years by the DoD CFD in support of our military. After reading this book, one cannot help but appreciate how important, how massive the scale and how complex it is to feed our warfighters across the globe. The DoD CFD continues their work via bi-annual Technology Brainstorming Sessions to draw out potential areas for investment in future research projects that will ultimately lead to change in ration components, menus, or perhaps creation of a new ration or family of rations. --Carla L. Kuesten, Senior Principal Research Scientist, Amway

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About the Author

Ann H. Barrett and Armand V. Cardello, U.S. Army Natick RD&E Center

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