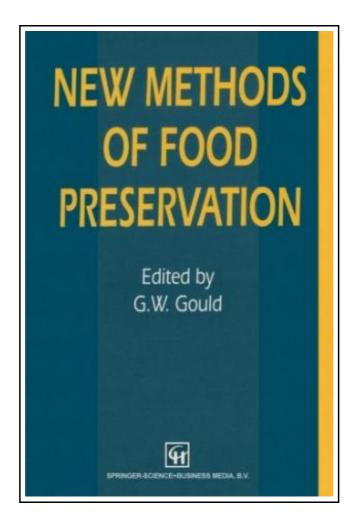
New Methods of Food Preservation



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(Dr. Nelda Schuppe)

NEW METHODS OF FOOD PRESERVATION



Book Condition: New. Publisher/Verlag: Springer, Berlin | The majO.r techniques emplO.yed fO.r fO.O.d preservatiO.n have a 100ng histo'ry O.f use. They include chilling; freezing; drying; curing; cO.nserving; fer menting O.r O.therwise acidifying; the additiO.n O.f preservatives; heat pasteurisatiO.n and sterilisatiO.n. Newer techniques mO.re-O.r-less derived frO.m these traditiO.nal proce dures include the successful applicatiO.n O.f cO.mbinatiO.n. preservatiO.n O.r 'hurdle' methO.ds, vacuum- and mO.dified atmO.sphere-packaging, and cO.ntinuO.us sterilisatiO.n cO.upled to' aseptic packaging. More innO.vative techniques, such as the use O.f iO.nising radiatiO.n, are increasingly being emplO.yed. At the same time, there is a reawakening O.f interest in even mO.re radical apprO.aches. The reaSO.ns fO.r this derive principally from co.nsumers' requirements fo.r fo.o.ds that are higher in quality, so. less severely prO.ces sed; mO.re natural, so. less heavily preserved; nutritiO.nally healthier, so. cO.ntaining less salts, sugars and fats; and, with respect to' f0.0.d p0.is0.ning, with retained, 0.r preferably improved, assurance 0.f safety. | 1 Principles and applications of hurdle technology.- 1.1 Introduction.- 1.2 Examples of the hurdle effect.-1.2.1 Fermented foods.- 1.2.2 Shelf stable products (SSP).- 1.2.3 Intermediate moisture foods (IMF).- 1.3 Behaviour of microorganisms during food preservation.- 1.3.1 Homeostasis of microorganisms.- 1.3.2 Multitarget preservation of foods.- 1.3.3 Stress reactions and metabolic exhaustion.- 1.4 Total quality of foods.- 1.4.1 Optimal range of hurdles.- 1.4.2 Potential safety and quality hurdles.- 1.4.3 User guide to food design.- 1.5 Application of hurdle technology in less developed countries.- 1.5.1 Fruits of Latin America.- 1.5.2 Dairy product of India.- 1.5.3 Meat products of China.- 1.6 Future potential.- References.- 2 Bacteriocins: natural antimicrobials from microorganisms.- 2.1 Introduction.- 2.1.1 Historical.- 2.2 Bacteriocin structure and function.- 2.2.1 Lantibiotics.- 2.2.2 Small heat-stable bacteriocins.- 2.2.3 Large heat-labile bacteriocins.- 2.3 Genetics of bacteriocins from LAB.- 2.3.1 Genetic organization of bacteriocin operons.- 2.3.2 Genetic location of bacteriocin genes.- 2.4 Application of bacteriocins in food systems.-...



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