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Application of Artificial Neural Network on Fermentation Industry

Li Bing Guo Siyuan Li Lin Zou Hui

(College of Food and Bioengineering, South China University of Technology, Guangzhou, 510640)

ABSTRACT Artificial neural network (ANN), with its unique abilities of non-linearly and adaptively processing data, has been widely used in the fields of chemical industry and communication industry. The application of neural network on fermentation industry, such as simulation and prediction, error diagnosis, automated control and formulation optimization, were reviewed in this paper. The prospect of ANN on fermentation industry was also discussed.

Key words artificial neural network, fermentation, simulation, control, error diagnosis



美国推出婴儿膳食配料浅盘包装

最近, 美国纽约的 Westraco 有限公司向市场推出了婴儿膳食包装浅盘。该包装采用双层可烘烤的纸板加工制成的船形浅盘, 具有 2~3 个食格, 膳食配料可变, 可保证食品丰富的营养。这种包装浅盘采取回转上盖热封, 其生产速度达 70 个/min。它不含金属成分, 在微波炉中烤热后, 双层结构可使其保温, 而且盘内一次未食完的剩余食品可保质 48h。该浅盘主要用于盛放水果、蔬菜、谷物以及以大豆为原料的各种婴儿配料食品等, 其热稳定性好, 符合环保要求, 且价格低于玻璃瓶。