



# The Mechanics and Physics of Modern Grain Aeration Management

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The tightening of health and environmental regulations by banning chemical pesticides has generated the need for alternative technologies to solve grain storage problems. Aeration is such an option that can be applied to stored grain and a wide range of agricultural commodities to control insects and maintain quality. The Mechanics and Physics of Modern Grain Aeration Management demonstrates the most advanced theoretical solutions and practical approaches to aeration of stored grain. It will help those involved in the handling and processing of grain to maximize the end-use quality of food commodities and eliminate the occurrence of toxins, insects, pesticides, and chemical residues during storage.

A stand-alone resource, this book can be used to design and manage aeration systems for all types of grain storage structures in all regions and climatic conditions. It bridges the gap between concepts of the design engineer and the requirements of the postharvest technologist to manipulate the storage ecosystem. It describes alternative, nonstandard aeration practices such as Dryeration, cross-flow aeration, closed loop or recirculation fumigation, and chilled aeration. Not only does The Mechanics and Physics of Modern Grain Aeration Management equip you with the knowledge necessary for aerating properly and efficiently within the context of new regulatory demands and gives you the tools you need to evaluate and test new concepts for assuring stored grain quality.

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