This second edition is an entirely updated and extensively expanded version of the first edition on corn. It provides solid and in-depth information, and covers almost every aspect of the subject. Such a work is an indispensable resource to its targeted readers—scientists who are experts in the subject matter.

The book has 23 chapters. Each chapter has been written by one or multiple corn science educators and researchers. From the history and culture of corn in North America to today’s controversial genetic modifications of corn, from breeding to industrial process, from nutrition to added value, the contributors of each chapter give a detailed context and summary of the corn business in economic, scientific, and social fields.

The new edition emphasizes many new areas of the subject. For example, the topic of genetically modified crops is addressed in various appropriate chapters and takes up the whole of Chapter 21. The book also introduces a substance of corn, mycotoxins, which impact the health and safety of humans and livestock. In addition, the book addresses other new value-added materials from the corn, such as corn fiber oil, a highly nutritious oil with heart-healthy phytosterols. Ethanol, which can be mixed with gas to create an environmentally-friendly energy resource, is discussed as well, and new and more efficient industrial processing methods are included in this second edition.

The editors compiled this book to be of technical interest to academic, government, and industrial scientists from a variety of disciplines around the world. Since the book has been wholly updated and substantial content added, the title of this book should be expanded to reflect its current content and greater value because it covers so many areas in so much detail, including agriculture, biosystems engineering, agronomy, animal science, business, chemistry, crop and grain science, entomology, genetics, microbiology, mycology, nutrition, and energy resources. The book is suitable for the level of graduate studies and beyond. It will be a great companion to corn scientists.

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