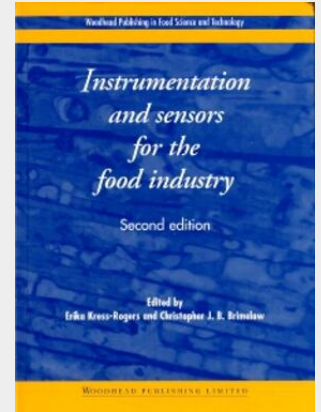Kress-Rogers / Brimelow

Instrumentation and Sensors for the Food Industry

The first edition of this book quickly established itself as the standard reference in its field, and the second edition consolidates this reputation. Keeping up with the rapid change in this area, there are 16 new contributors and 8 completely new chapters, as well as major revisions to existing chapters, making this second edition a substantially longer book.Instrumentation and sensors for the food industry 2nd edition begins with two introductory chapters to set the scene, part one covers in-line measurement of food processing operations, including colour measurement, the measurement of food composition by a range of techniques, and the measurement of pressure, temperature, level, flow and viscosity. Part two reviews instrumental techniques in the quality control laboratory, including the measurement of rheological properties, texture, water and microbiological activity. Part thee has five chapters devoted to the increasingly widespread use of electronic noses, chemosensors, biosensors, immunosensors and DNA probes.

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