

Physical properties of plant and animal materials. Vol. 1. Structure, physical characteristics and mechanical properties.

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Physical properties of plant and animal materials. Vol. 1. Structure, physical characteristics and mechanical properties.

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Abstract : This book attempts to collate and analyse those physical properties

economically important plant and animal materials, governing their response to physical processes involved from production or harvesting to their consumption. The book concerns the design of machines and processes, quality evaluation and control. Materials covered include dairy products. Chapters are: Importance [of physical and mechanical, thermal, electrical and optical properties of bio-materials] (pp. 1-14); Water and retention of water (pp. 15-50, 19 ref.); Physical characteristics (pp. 51-87); Concepts of rheology (pp. 88-173, 42 ref.); Rheological properties (pp. 174-277); Stresses between bodies in compression (pp. 278-308); Rheology and texture of materials (pp. 309-382); Mechanical damage (pp. 383-494); Aero- and hydrodynamic characteristics (pp. 495-555); and Friction (pp. 556-642). An appendix (pp. 643-689) contains tabulated data on physical properties of materials and data for conversion constants. The book also includes a bibliography (pp. 690-720) and a subject index. JA.

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