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Quantitative texture analysis comparison of three legumes

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A validated texture-analysis method to evaluate product quality in frozen or cooked legumes is needed to support high-quality vegetable production but is not currently established in the literature. Peas, lima beans, and edamame were investigated in this study due to similar market use as well as growth in plant-based protein consumption in the United States. These three legumes were evaluated after three different processing treatments (blanch/freeze/thaw (BFT); BFT+microwave heat (BFT+M); BF+stove-top cooking (BF+C)), using both compression and puncture analysis following an American Society of Agricultural and Biological Engineers (ASABE) texture analysis method and moisture testing following an American Society for Testing and Materials (ASTM) standard method. Texture analysis results showed differences between legumes and processing methods. Compression analysis identified more differences between treatments within product type than puncture for both edamame and lima beans indicating compression might be more sensitive to texture changes in these products. Implementation of a standard texture method for legume vegetables for growers and producers would provide a consistent quality check to support efficient production of high-quality legumes. Due to the sensitivity obtained from the compression texture method in this work, compression should be considered for future research into a robust method to evaluate edamame and lima bean textures throughout the growing and production processes.

KEYWORDS

texture, legume, vegetables, quality, compression, puncture

1 Introduction

Consumer acceptance, market value, and overall usefulness of food ingredients including vegetables and products are dependent on texture, which is highly influenced by growing and storage conditions as well as processing methods and techniques (Armfield and Maskus, 2011). Properties of processed and raw fresh foods, such as legume vegetables, change over time due to microbial actions, oxidation, moisture migration and other factors, making accurate and complete understanding of the mechanical properties of foods, especially raw foods, difficult (Lu and Abbott, 2004). Quantification of quality attributes,

Quantitative Texture Analysis

Michael Dahms, Hans J. Bunge



Quantitative Texture Analysis:

Quantitative Texture Analysis Hans-Joachim Bunge, 1982 *Quantitative Texture Analysis* Hans Joachim Bunge, C. Esling, Deutsche Gesellschaft für Metallkunde, 1986 **Quantitative Texture Analysis** Hans Joachim Bunge, C. Esling, University of Metz. Laboratoire de Métallurgie Structurale, Technische Universität Clausthal. Institut für Metallkunde und Metallphysik, 1982 **Quantitative texture analysis in multiphase materials with overlapping Bragg reflections**, 1988 **Model Investigation of the Grain Number to Apply Quantitative Texture Analysis Averaging** T. A. Lyčagina, D. I. Nikolaev, 2002 Deformation Mechanisms, Rheology and Tectonics Siese de Meer, 2002 The motion and deformation of rocks are processes of fundamental importance in shaping the Earth from outer crustal layers to the deep mantle Reconstructions of the evolution of the Earth therefore require detailed knowledge of the geometry of deformation structures and their relative timing of the motions leading to deformation structures and of the mechanisms governing these motions This volume contains a collection of 22 papers on field experimental and theoretical studies that add to our knowledge of these processes **The iterative series expansion method for quantitative texture analysis** Michael Dahms, Hans J. Bunge, 1989 **Advances and applications of quantitative texture analysis**, 1991 *Textures of Materials - ICOTOM 14* Paul van Houtte, Leo Kestens, 2005-09-15 Proceedings of the 14th International Conference on Textures of Materials July 11th 15th 2005 Leuven Belgium *International Tables for Crystallography, Volume H* Christopher J. Gilmore, James A. Kaduk, Henk Schenk, 2019-09-16 Die Pulverdiffraktion ist in der Kristallographie die am weitesten verbreitete Methode Die Anwendungen umfassen sämtliche Bereiche der Strukturwissenschaften Dieser neue Band aus der Reihe International Tables deckt alle Aspekte des Verfahrens in über 50 Kapiteln ab Autoren sind Experten des Fachgebiets Dieser Band umfasst sieben Teile mit folgenden Inhalten Überblick über die Prinzipien der Pulverdiffraktion Erläuterung der bei der Pulverdiffraktion eingesetzten Strahlungsquellen Instrumente und Ausrüstung Einsatz unterschiedlicher Probenumgebungen und Methoden der Probenvorbereitung Information zu Methoden einschließlich Datenverarbeitung Indexierung und Reduktion Whole Pattern Modellierung und quantitative Analyse sowie Überblick über die relevanten Datenbanken der Kristallographie Fokus auf Strukturbestimmung einschließlich Methoden im realen und reziproken Raum sowie Methode der maximalen Entropie Strukturverfeinerung und Strukturvalidierung Erläuterung von Defekten Textur Mikrostruktur und Fasern einschließlich Belastung und Beanspruchung Domänen und Dünnschicht Untersuchung der für die Pulverdiffraktion verfügbaren Software Beschreibung der Anwendungsmöglichkeiten in vielen wichtigen Bereichen Industrie und Wissenschaften einschließlich Makromoleküle Mineralien Keramik Zement Polymere Forensik Archäologie und Pharmazeutika sowie Erklärung von Theorie und Anwendungen Band H ist das wichtigste Referenzwerk für alle die im Bereich Pulverdiffraktion tätig sind ob Anfänger und erfahrener Praktiker wurde für die Praxis entwickelt ohne Sorgfalt und Genauigkeit zu vernachlässigen Die Methode der Pulverdiffraktion wird anhand vieler Beispiele ausführlich behandelt Die

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Tables for Texture Analysis of Cubic Crystals J. Hansen, J. Pospiech, K. Lücke, 1978-09-01 Recent progress in the material sciences has led to an increasing amount of interest in the role of textures

for the behaviour of materials and in the mechanisms controlling the texture formation This development was supported by a rather powerfull development taking place in the area of texture studies itself Besides the usual more qualitative characterization of a texture by pole figures a fully quantitative description by a three dimensional orientation distribution function ODF has been increasingly applied There are two sides to the problem of quantitative representation of textures One involves the mathematical technique associated with the acquisition of an ODF and its transforms from the experimental data whereas the other concerns the methods of a rational description and interpretation of an ODF The fust side can be considered from the practicaif point of view as experimental data processing which is accomplished by a computer and is sort of a continuation of the measurement itself Much attention has been paid to this problem particulary by Bunge who has written up achievements in this field in this extensive monograph 1 and in conference proceedings 2 There is also avaiable a rather detailed presen tation of a system of subroutines written in Fortran 3 which allows standard computations to be made without having to go into the mathematical details of the method

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Gerlands Beiträge zur Geophysik ,1984 **Tables for Texture Analysis of Cubic Crystals** J. Hansen,J. Pospiech,K. Lücke,1978 Recent progress in the material sciences has led to an increasing amount of interest in the role of textures for the behaviour of materials and in the mechanisms controlling the texture formation This development was supported by a rather powerfull development taking place in the area of texture studies itself Besides the usual more qualitative characterization of a texture by pole figures a fully quantitative description by a three dimensional orientation distribution function ODF has been increasingly applied There are two sides to the problem of quantitative representation of textures One involves the mathematical technique associated with the acquisition of an ODF and its transforms from the experimental data whereas the other concerns the methods of a rational description and interpretation of an ODF The fust side can be considered from the practicaif point of view as experimental data processing which is accomplished by a computer and is sort of a continuation of the measurement itself Much attention has been paid to this problem particulary by Bunge who has written up achievements in this field in this extensive monograph 1 and in conference proceedings 2 There is

also available a rather detailed presentation of a system of subroutines written in Fortran 3 which allows standard computations to be made without having to go into the mathematical details of the method *Advances and Applications of Quantitative Texture Analysis* Hans Joachim Bunge, C. Esling, 1991 Textures of Geological Materials Hans Joachim Bunge, 1994

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