Quantitative Textural Measurements In Igneous And Metamorphic Petrology

quantitative textural measurements in igneous and ... - quantitative textural measurements in igneous and metamorphic petrology acknowledgements.....2

quantitative textural measurements in igneous and ... - quantitative textural measurements in igneous and metamorphic petrology processes involved in the development of igneous and metamorphic rocks involve some combination of crystal growth, solution, movement and defor-

this page intentionally left blank - ksu faculty - quantitative textural analysis of rocks must start with measurement of textural parameters in rocks. modelling of the evolution of these parameters is generally done by taking each parameter individually. for example crystal size is generally modelled independently from other textural parameters (e.g. the classic study of cashman & marsh, 1988).

origin of anorthosite by textural coarsening: quantitative ... - journal of petrology volume 39 number 7 pages 1307Ã¢Â€Â“1323 1998 origin of anorthosite by textural coarsening: quantitative measurements of a natural sequence of textural development michael d. higgins*

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textural analyses of multibeam sonar imagery from stanton ... - quantitative textural measurements (second-order statistics) can be extracted from the image with various techniques, the most efficient being stochastic [12]. this original theoretical work was supplemented with practical applications to sonar imagery by [10, 13-16]

dynamics of magmatic systems as revealed by quantitative ... - 1071 the 1 st international applied geological congress, department of geology, islamic azad university - mashad branch, iran, 26-28 april 2010 dynamics of magmatic systems as revealed by quantitative textural measurements of igneous rocks from se-birjand (east of iran) amir eskandary* , sadraddin amini , nasrin farahkhah

quantitative textural parameter selection for residential ... - quantitative textural parameter selection for residential ... (ed) approaches with candidate nine texture measurements (contrast, homogeneity, dissimilarity entropy, energy, mean, standard deviation, correlation and edge density) is selected as candidate texture measurements. ... textural information over as larger an area as possible. if this is

quantitative structural and textural assessment of laminar ... - quantitative structural and textural assessment of laminar pyrocarbons through raman spectroscopy, electron diffraction and few other techniques jean-marie vallerot, xavier bourrat(*), arnaud mouchon and georges chollon university of bordeaux 1, laboratoire des composites thermostructuraux, 3 allÃƒÂ©e de la boÃƒÂ©tie, f-33 600 pessac, france

textural variations of pizza in commercial establishments - textural variations of pizza in commercial establishments ... textural variations of pizza in commercial establishments andrew bingham, christopher boucher, and james boyce ... it would be vital to assess the quality of the pie through quantitative texture measurements. research on quantitative texture analysis has been conducted on similar ...

magma solidification processes beneath kilaueavolcano ... - magma solidification processes beneath kilaueavolcano, hawaii: a quantitative textural and geochemical study of the 1969^1974 mauna ulu lavas nicolas vinet* and michael d. higgins

a procedure for classifying textural facies in gravel-bed ... - a procedure for classifying textural facies in gravel-bed rivers john m. bufÃ¯Â¬Â•ngton1 and david r. montgomery department of geological sciences, university of washington, seattle abstract. textural patches (i.e., grain-size facies) are commonly observed in gravel-bed channels and are of signiÃ¯Â¬Â•cance for both physical and biological processes ...

on the structure of mare basalt lava flows from textural ... - abstractÃ¢Â€Â“quantitative textural data for northwest africa (nwa) 032 and the lapaz (lap) mare basalt meteorites (lap 02205, lap 02224, lap 02 226, and lap 02436) provide constraints on their crystallization and mineral growth histories. in conjunction with whole-rock and mineral chemistry,

texture measurements in fish and fish products - force is a measurement of stress, and is the most commonly measured textural property for a variety of instruments. force measurements include puncture, compression-extrusion, shear, crushing, tensile, torque and bending and snap-ping. distance is a measure of strain, or the change in dimensions of a test specimen caused by the application of a ...

image textural measures as indices for the development of ... - qualitative characteristics. in this paper and on the basis of the textural measurements that have been established in landscape ecology, six quantitative indices are selected and designed and the results from the application of these indices to the same sample of ground photographs that was used in the afore-mentioned research programme are ...

mineral lamination development in layered gabbros of the ... - quantitative textural analyses including anisotropy of magnetic susceptibility (ams) and crystal size distribution measurements were combined with detailed field structural measurements and major element profiling of cumulus plagioclase crystals to study the development of igneous textures in the Ã¢Â€Â˜fluxion gabbrosÃ¢Â€Â™ of the

quantitative analysis of facial features - canfield scientific - entiate the types of measurements and data that can be generated with each system. quantitative analysis . of facial features. luke mott and ara jingirian. canfield 2d and 3d imaging systems are valuable tools for evaluating and substantiating claims of treatment efficacy with volumetric measurements of

sensory and texture properties of mashed potato ... - uses trained assessors to describe and give quantitative texture measures of a given food. this is applied using standard rating scales, which provide a quantitative evaluation of the mechanical and other texture parameters by measuring qualitative and quantitative textural differences of similar samples.

computational methods for quantitative analysis of three ... - keywords: x-ray tomography, quantitative textural analysis, image processing, crystal-lization mechanisms, porphyroblasts. introduction petrographic inspection of rocks has largely been restricted to two-dimensional observa-tion, whether on the outer surface of an out-crop or hand sample or from analysis of thin sections. while two-dimensional ...

quantitative analysis of relationships between masseter ... - quantitative analysis of relationships between masseter activity during chewing and textural properties of foods 145 2. materials and methods . 2.1. participants . ten young adults (seven men and three women) with an average age of 20 years participated in this study after providing informed consent. none of the participants had

can we use pyroxene weathering textures to interpret ... - can we use pyroxene weathering textures to interpret aqueous alteration conditions? yes and no. ... mined based on quantitative textural analyses of denti-cle lengths or apical angles [3]. ... rate determinations based on solute measurements [16]. dissolution in 2 m naclo 4 is similar to upw and dilute na 2so

application of a textural geospeedometer to the late-stage ... - quantitative textural approach ca-pyroxene is the phase selected for quantitative textural analysis for several reasons. most importantly, ca-pyroxene is the modally dominant mineral in the experimental material and the mil 03346 groundmass. this facilitates measurements in both materials having reasonable

textural analyses of multibeam sonar imagery from stanton ... - acoustic measurements as well as processing with acoustic classiÃ¯Â¬Â•cation systems, and the results are presented in companion papers in this issue. the present article focuses on the analysis of the multibeam imagery with texan, a proprietary software from the university of bath originally designed for textural analyses of sidescan sonar ...

soils laboratory 2 soil texture - fort lewis college - soil texture may be determined in a qualitative fashion or a quantitative fashion. a qualitative determination of texture gives us an estimate of texture. a quantitative determination of texture gives us a precise measurement of the % sand, % silt, and % clay in a sample. this allows us to use the usda

textural and mineralogical study of sandstones from the ... - quantitative textural and mineralogical data for 74 sandstone samples from various localities in the onshore part of the gatp (fig. 1) and should facilitate forecasting physical properties of the offshore sedimentary rocks. samples analyzed in this study were collected from 1963 to 1972 in

flow banding in obsidian: a record of evolving textural ... - we perform a quantitative textural analysis of banding in obsidian from big glass mountain (bgm), medicine lake volcano, california and from mayor island (mi), new zealand. the samples are compositionally homogeneous, with banding defined by variable microlite content (bgm) or vesicularity (mi).

development and application of some quantitative ... - development and application of some quantitative stratigraphic techniques to the coos bay coalfield, a tertiary fluvio-deltaic ... quantitative textural parameters, can be treated by any of a ... descriptions and structural measurements published by allen and baldwin (1944) and duncan (1953} and the results of ...

rheology of foods: new techniques, capabilities, and ... - quantitative normal force measurements during mixing or agitation, a viscoelastic fluid will climb the impeller shaft in a phenomenon known as the weissenberg effect. this can be ob-s e r ved in the home during the mixing of cake or chocolate brownie batter. if a fluid is newtonian, the viscosity is a constant and (Ã¢Â€Â², .

compaction in the bushveld complex and the nature of the ... - compaction in the bushveld complex and the nature of the lower zone-critical zone transition sonja boorman and alan e. boudreau division of earth and ocean sciences, nicholas school of the environment, duke university, box 90227,

review the applications of radiomics in precision ... - the quantitative textural features reflecting tumor heterogeneity with pet. in addition, they found that standard uptake value (suv) discretization could also impact the results of textural features detecting. compare to threedimensional (3d)- -pet, respiratory- gated (4d) pet can reduce motion blurring and generate more robust features [29, 31 ...

texture analysis of sar sea ice imagery using gray level ... - texture analysis of sar sea ice

imagery using gray level co-occurrence matrices leen-kiat soh ... tural parameters and representations and a quantitative evaluation of these experiments, which shows which textural ... some work has attempted to identify which textural measurements provide better descriptors for sea ice [65], ...

quantitative three-dimensional echocardiography: image ... - quantitative three-dimensional echocardiography: ... measurements is typically compromised by userÃ¢Â€Â™s subjectivity, limited windows of access ... of textural properties (i.e., determination of discriminating power of various texture features), 4) analysis of random and impulsive noise (i.e., design of a noise resistant ...

revision 2 understanding magmatic processes at telica ... - 1 revision 2 understanding magmatic processes at telica volcano, nicaragua: crystal size distribution and textural analysis molly witter1,2*, tanya furman1, peter lafemina1, maureen feineman1 1 department of geosciences, pennsylvania state university, university park, pa 16802, usa 2 now at: department of geological sciences, stanford university, 397 panama mall, stanford

geoscience canada volume 42 2015 series - journalsb.unb - observations were qualitative, except for modal measurements. however, the development of quantitative chemical and iso-topic analysis in the 20th century somewhat eclipsed traditional petrographic studies and has come to dominate petrology. this is understandable: quantitative measurements do enable more rigorous testing of petrologic models.

quantitative ultrasound texture analysis of fetal lungs to ... - means of gray-level measurements, lung tissue motion and relative features of lung-to-placenta or -liver images, among others11Ã¢Â€Â“16. these studies revealed a good correlation with respiratory morbidity, but the diagnostic accuracy was inadequate for clinical use. over the years, powerful quantitative techniques for

idiopathic pulmonary fibrosis: data-driven textural ... - puter-based quantitative analysis included ct histogram-based measurements and a data-driven textural analysis (dta). follow-up ct images in 72 of these subjects were also analyzed. univariate comparisons were performed by using spearman rank correlation. multivariate and longi-tudinal analyses were performed by using a linear mixed

measuring snow microstructure and hardness using a high ... - a high resolution penetrometer martin schneebelr, christine pielmeier swiss federal institute for snow and avalanche research (slf) ... quantitative and rapid method for measuring the ... correlation of the textural index to measurements

crystallization and textural evolution of a closed- system ... - petrographic observations combined with quantitative textural analysis of samples from various stratigraphic levels of the lilloise intrusion, east greenland, demonstrate that postcumulus textural modiÃ¯Â¬Â•cation of cumulates, formed during the solidiÃ¯Â¬Â•cation of a closed system magma chamber, may be detected. crystal size distribution (csd ...

textural and mechanical variability of mountain snowpacks - - systematic measurements, analysis and interpretation of the spatial variability of the textural and mechanical snowpack properties. the thesis consists of this introductory chapter, five main chapters containing two published papers and three papers submitted for publication in reviewed journals, and the final synopsis chapter:

benchmarking value in the pork supply chain: quantitative ... - benchmarking value in the pork supply chain: quantitative strategies and opportunities to improve quality in ham and belly processing a thesis by ... 45, consumer panel evaluations and textural measurements were collected. the low pse group had higher purchase intent ratings (p

quantitative field estimations of stickiness and ... - plasticity. these measurements are made by manipulating the soil with different soil moisture contents, somewhat like the procedure used to determine stickiness and plasticity. the objectives of this research are to 1. demonstrate that soil stickiness and plasticity as evaluated by soil scientists in the field should be more quantitative. 2.

can quantitative ct texture - pubsna - (10,18). quantitative texture analysis is an objective approach with which to evaluate tissue gray-level patterns that are not otherwise perceptible to the human eye (19). this technique relies on objective computer-assisted measurements and is, therefore, in-dependent of the subjective visual in-terpretation of the radiologist (20). in

cancer imaging phenomics toolkit: quantitative imaging ... - quantitative cancer imaging phenomics, and hence the captk software, builds upon work often referred to as radio-mics and radiogenomics, which use various textural and shape features to build a comprehensive representation of the tumor. additional features used in captk, such as spatial pat-

textural evaluation of rice cake by chewing and swallowing ... - textural evaluation of rice cake by chewing and swallowing measurements on human subjects kaoru kohyama,y hiroko sawada, miho nonaka, chiharu kobori, fumiyo hayakawa, and tomoko sasaki national food research institute, 2-1-12 kannondai, tsukuba, ibaraki 305-8642, japan

understanding magmatic processes at telica volcano ... - understanding magmatic processes at telica volcano, nicaragua: crystal size distribution and textural analysis . ... the thin sections for quantitative textural analysis was completed using a microfiche and black ... image processing was done using imagej 1.46 software to obtain size measurements of

relating descriptive analysis and instrumental texture ... - the textural properties of two varieties of tomatoes processed in duplicate by three methods (aseptic, cold-Ã¯Â¬Â•ll and hot-Ã¯Â¬Â•ll) were assessed by descriptive analysis and instrumental measurements [kramer shear press, back extrusion and texture proÃ¯Â¬Â•le analysis (tpa)].

reproducibility of f18Ã¢Â€Â•fdg pet radiomic features for ... - textural features by characterizing the tumor f18-fdg uptake heterogeneity in the pet scans of 41 esophageal cancer patients.30 all the Ã¯Â¬Â•ndings mentioned above indicates that quantitative assessment of tumor uptake heterogeneity based on pet 18fÃ¢Â€Â“fdg images is a promising method to investigate intra- and inter-tumor characteristics.

thin bed reservoirs formation evaluation without bimodal ... - triaxial induction tools provid e measurements of both vertical and horizontal resistivities (wu et al. 2010) for the quantitative evaluation of thin sand layers in sand -shale sequences. however , the require ment that the volume of investigation has to be deep enough to measure properties unaltered by

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