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Oct 15 2012**

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While some free-space facilities exist that can characterize down to 500 MHz, the method is most useful for characterizing materials from 2 GHz

through millimeter waves. This book is designed to acquaint engineers and scientists with the theory and practice of using microwave focused beam systems for free-space characterization of

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The use of free-space measurement methods has become commonplace among microwave material characterization laboratories due to its ease of use and reasonable accuracy.

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Abstract A methodology is developed to



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determine the microwave backscatter from inhomogeneous materials and structures using a free-space focused-beam apparatus. This quantitative method determines the scattering coefficient for inhomogeneous surfaces and echo width for linear discontinuities.

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**A focused-beam methodology for  
measuring microwave ...**

To validate the probe, measurement results of a uniaxial absorber are presented and compared to those obtained using a focused-beam (free-space) measurement system. The probe's sensitivity to...

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Focused-beam methods have been used to measure the microwave permittivity and permeability of materials at normal incidence [1-3]. These methods are accurate because the focused illumination minimizes the edge-diffraction effects from a finite sample

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size, while still approximating planewave  
illumination with a planar-phase front.

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A methodology is developed to  
determine the microwave backscatter  
from inhomogeneous materials and  
structures using a free-space focused-

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beam apparatus. This quantitative  
method determines the... John W

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**A focused-beam methodology for  
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Focused beam reflectance measurement  
(FBRM) is a real-time (on-line)  
monitoring tool for the determination of  
size and shape of the particles in the

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process by considering the chord length  
of the...

## **Real-time Particle Size Analysis Using the Focused Beam ...**

In order to evaluate the resolution and  
to find where the problem is, we  
measure the shape of the excitation  
beam exiting the objective using a knife

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edge method. Here a sharp opaque edge is scanned through the beam at different heights and the transmitted light is detected.

## **A simple but precise method for quantitative measurement ...**

I have another question, what is the minimum diameter of microwave beam



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that can be focused if a parabolic reflector (or other device for focusing microwave) is used, say for 2.45GHz microwave? ... I once read a paper where the authors were using an Liquid Crystal display to measure RF energy. Basically, the liquid crystal will change states due ...

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## Microwave Materials In Free Space By Schultz Jm W ... **can microwave be focused? - Microwave & electromagnetic ...**

Measurement of Low Power The  
measurement of Microwave power  
around 0.01mW to 10mW, can be  
understood as the measurement of low  
power. Bolometer is a device which is  
used for low Microwave power  
measurements. The element used in

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bolometer could be of positive or  
negative temperature coefficient.

**Microwave Engineering -  
Measurements - Tutorialspoint**

This paper provides a review spanning  
different technologies used to  
implement near-field focused antennas  
at the microwave frequency band up to

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a few tens of GHz: arrays of microstrip patches and printed dipoles, arrays of dielectric resonator antennas, reflectarrays, transmitarrays, Fresnel zone plate lenses, leaky-wave antennas, and waveguide arrays.

## **Technologies for Near-Field Focused Microwave Antennas**

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The beam typically extends beyond the aperture of the receiving antenna at relatively short distance and may also spread beyond the aperture of the

sample. Such methods are therefore prone to errors caused by diffraction at antennas and sample edges. For this reason focused-beam methods are more often used in practice.

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**Frequency domain complex  
permittivity measurements at ...**

Automatic measurement of permittivity and permeability at microwave frequencies using normal and oblique free-wave incidence with focused beam. Abstract: A free-wave method for determining the dielectric and magnetic

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properties of materials from reflection  
measurements made at normal  
incidence and transmission  
measurements made at normal and  
oblique incidence is proposed.

**Automatic measurement of  
permittivity and permeability at ...**  
For measurement of a focused laser

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beam diameter, a new method, referred to as the PD-edge method, in which an edge of an active cell in a photodiode (PD) is directly employed in the same manner as a knife-edge or a knife-pad in the conventional methods, is proposed with the enhancement of the principle of laser autocollimation.



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**A PD-edge method associated with  
the laser autocollimation ...**

Focused-beam microwave irradiation (FBMI) is a relatively new method for euthanasia of small mammals and is available to most researchers.

Compared with CO<sub>2</sub> inhalation, this method of euthanasia ...

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**Comparison of hypothalamic mRNA  
levels in mice euthanized ...**

This paper describes a unique quasi-optical free space focused beam system for the measurement of microwave electromagnetic material parameters. The system employs two spherical reflectors which are illuminated from the side by gaussian beam forming

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antennas.

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Measurement Techniques ...**

Inline focused beam reflectance  
measurement (FBRM) is a valuable real-  
time monitoring process analytical  
technology (PAT) for granule size  
distribution. Chord length distribution

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(CLD) reported by FBRM inline inside a high-shear granulator (HSG) can differentiate particle size distributions (PSDs) within the ranges relevant to pharmaceutical processing.

## **Inline Focused Beam Reflectance Measurement During Wet ...** Focused Beam Reflectance

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Measurement (FBRM) FBRM is the industry-standard measurement technique used for in-process measurement of particles. A highly precise chord length distribution (CLD), sensitive to particle size and count, is reported in real time without the need for sampling or sample preparation.

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