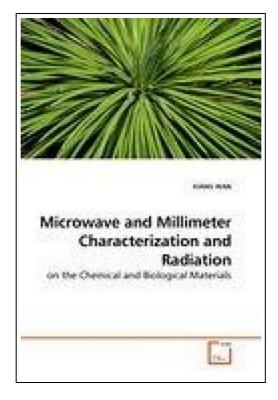
Microwave and Millimeter Characterization and Radiation : on the Chemical and Biological Materials



Filesize: 3.87 MB

Reviews

The best book i actually go through. It can be full of wisdom and knowledge Once you begin to read the book, it is extremely difficult to leave it before concluding.

(Prof. Greg Herzog)

MICROWAVE AND MILLIMETER CHARACTERIZATION AND RADIATION : ON THE CHEMICAL AND BIOLOGICAL MATERIALS



VDM Verlag Mrz 2010, 2010. Taschenbuch. Condition: Neu. This item is printed on demand - Print on Demand Neuware - The ability of microwave and millimeter wave radiation to detect biological agents, with a particular focus on anthrax spores, has been investigated. The characterization measurement technique for powder dipicolinic acid sample up to 170 GHz is based on standard waveguide configuration. A variety of network analyzer systems and scalar analyzer systems have been developed and applied to make the transmission and reflection measurement from X band to D band. No resonance has been found in dipicolinic acid. A multilayer CPW sensor has been designed to test the liquid sample such as keratin, DNA and bacteria subtilis solution up to 40 GHz. Simulation and numerical calculation help to separate the radiation loss from the total loss, therefore, the dielectric properties can be deduced from the extracted dielectric loss. Measurements of liquid samples like ethanol, methanol and water have a good compatibility with theoretical prediction. The ultimate objective is to find the resonances then apply high power microwave at those frequencies to kill the spores 'locally' based on the nonthermal heating mechanism. 240 pp. Englisch.

Read Microwave and Millimeter Characterization and Radiation: on the Chemical and Biological Materials Online
Download PDF Microwave and Millimeter Characterization and Radiation: on the Chemical and Biological
Materials

See Also



How Not to Kill: Your Spouse, Kids, and Coworkers

Outskirts Press, United States, 2013. Paperback. Book Condition: New. 224 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Ever feel like you just can t take it anymore? Have you...

Read Book »



The Well-Trained Mind: A Guide to Classical Education at Home (Hardback)

 $WW \, Norton \, Co, \, United \, States, \, 2016. \, Hardback. \, Book \, Condition: \, New. \, 4th \, Revised \, edition. \, 244 \, x \, 165 \, mm. \, Language: \, English \, . \, Brand \, New \, Book. \, The \, Well-Trained \, Mind \, will instruct \, you, \, step \, by \, step, \, on \, how \, to ...$

Read Book »



Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. This historic book may have numerous typos and missing text. Purchasers can usually...

Read Book »



DK Readers Day at Greenhill Farm Level 1 Beginning to Read

DK CHILDREN. Paperback. Book Condition: New. Paperback. 32 pages. Dimensions: 8.8in. x 5.7in. x 0.2in.This Level 1 book is appropriate for children who are just beginning to read. When the rooster crows, Greenhill Farm springs...

Read Book »



Would It Kill You to Stop Doing That?

Book Condition: New. Publisher/Verlag: Little, Brown Book Group | A Modern Guide to Manners | A laugh-out-loud guide to modern manners by acclaimed humorist, author, and Vanity Fair columnist Henry Alford. | A few years...

Read Book x