

Predicting lignin content of wood samples with FTIR spectra

Filesize: 8.97 MB

Reviews

A top quality ebook and the font used was fascinating to read through. It is writter in easy terms and not confusing. Its been written in an remarkably easy way in fact it is simply after i finished reading through this publication through which actually altered me, alter the way i believe.

(Roberto Block)

PREDICTING LIGNIN CONTENT OF WOOD SAMPLES WITH FTIR SPECTRA



LAP Lambert Acad. Publ. Jan 2010, 2010. Taschenbuch. Book Condition: Neu. 220x150x4 mm. This item is printed on demand - Print on Demand Neuware - Conifer cell wall contains 15 35 % lignin. For wood processing industry, varying lignin content in raw material causes problems, as it makes it more difficult to assure a uniform quality of end products. Yet variation in lignin content in trees has been studied only little, mainly because the traditional laboratory methods for lignin content determination are very laborious and thus too costly for large sets of samples. In this work, we present a way of constructing a rapid and reproducible method for lignin content determination: we build a principal component regression (PCR) model with which lignin content in wood samples can be predicted from the Fourier-transformed infrared (FTIR) spectra measured on the samples. We strive to present the statistical theory needed in model construction (estimation, selection, testing) and lignin content prediction in an explicit and precise way. Hence, the work should be useful to wood scientists and statisticians with similar modelling endeavours. 60 pp. Englisch.

Read Predicting lignin content of wood samples with FTIR spectra Online
Download PDF Predicting lignin content of wood samples with FTIR spectra

You May Also Like

		$\$
	-	

Is It Ok Not to Believe in God?: For Children 5-11

Createspace, United States, 2014. Paperback. Book Condition: New. Large Print. 229 x 152 mm. Language: English. Brand New Book ***** Print on Demand *****. A short story about an 8 year old girl called Tia,... Download eBook >

	_	ſ
		J

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... Download e Book >

_	
-	

Speak Up and Get Along!: Learn the Mighty Might, Thought Chop, and More Tools to Make Friends, Stop Teasing, and Feel Good about Yourself

Free Spirit Publishing Inc.,U.S. Paperback / softback. Book Condition: new. BRAND NEW, Speak Up and Get Alongl: Learn the Mighty Might, Thought Chop, and More Tools to Make Friends, Stop Teasing, and Feel Good about... Download eBook >>

=

Read Write Inc. Phonics: Yellow Set 5 Storybook 7 Do We Have to Keep it?

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 211 x 101 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read...

Download eBook »

=
=

Becoming Barenaked: Leaving a Six Figure Career, Selling All of Our Crap, Pulling the Kids Out of School, and Buying an RV We Hit the Road in Search Our Own American Dream. Redefining What It Meant to Be a Family in America.

Createspace, United States, 2015. Paperback. Book Condition: New. 258 x 208 mm. Language: English . Brand New Book ***** Print on Demand *****.This isn t porn. Everyone always asks and some of our family thinks... Download eBook »