



Estimasi kadar karbon organik, tekstur tanah dan kadar kelembaban dengan citra aster dan spektrometri Studi kasus di kabupaten Pati propinsi Jawa Tengah  
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### DAFTAR PUSTAKA

- Alan Steven Belward, Carlos R. Valenzuela. 1991. *Remote Sensing And Geographical Information Systems For Resource Management In Developing Countries*. Kluwer Academic Publishers.
- Alex O. Awiti, Markus G. Walsh, Keith D. Shepherd, Jenesio Kinyamario. 2007. *Soil Condition Classification Using Infrared Spectroscopy: A Proposition For Assessment Of Soil Condition Along A Tropical Forest-Cropland Chronosequence*. GEODER-09764.
- Barouchas P.E. and Moustakas N.K. 2003. *Soil Colour and Spectral Analysis Employing Linear Regression Models*. Agricultural University of Athens.
- Brown, D., Shepherd, K.D., Walsh, M.G., Mays, M.D., Reinsch, T.G., 2006. *Global soil characterization with VNIR diffuse reflectance spectroscopy*. Geoderma 132, 273–290
- Charles W. Rice, Karina Fabrizzi, and Paul White. 2007. *Soil Carbon Management Economic, Environmental and Social Benefit*. CRC Press Taylor & Francis Group.
- Craswell, E. T. and Lefroy, R.D.B., 2001. *Nutrient Cycling Agroecosystems*. University of Bonn, Germany. Springerlink Journal.
- Danoedoro, P. 1996. *Pengolahan Citra Digital : Teori dan Aplikasinya dalam Bidang Penginderaan Jauh*. Fakultas Geografi. Universitas Gadjah Mada. Yogyakarta.
- David J. Brown, Keith D. Shepherd, Markus G. Walsh, M. Dewayne Mays, Thomas G. Reinsch. 2005. *Global Soil Characterization With VNIR Diffuse Reflectance Spectroscopy*. Geoderma 132 (2006) 273–290. [www.elsevier.com/locate/geoderma](http://www.elsevier.com/locate/geoderma).
- David C Le Maitre, David F Scott and C Colvin. 1999. *A Review of Information on Interactions Between Vegetation and Groundwater*. Diakses pada [http://www.wrc.org.za/archives/watersa%20archive/1999/April/apr99\\_p137.pdf](http://www.wrc.org.za/archives/watersa%20archive/1999/April/apr99_p137.pdf).
- Dengsheng Lu, Mateus Batistella, Emilio F. Moran, and Evaristo E. de Miranda. 2005. *A Comparative Study of Terra ASTER, Landsat TM, and SPOT HRG data For Land Cover Classification in the Brazilian Amazon*. Indiana University, Bloomington, Indiana, USA.



- Diaz-Zorita, M. and Grosso, G.A. 2000. *Effect of Soil Texture, Organic Carbon and Water Retention on The Compatibility of Soils From The Argentinean Pampas*, Soil Tillage Res., 54, 121–126.
- E. Ben-Dor, N. Goldshleger, Y. Benyamini, M. Agassi, and D. G. Blumberg. 1999. *The Spectral Reflectance Properties of Soil Structural Crusts In The 1.2- To 2.5-  $\mu$ m Spectral Region*. SOIL SCI. SOC. AM. J., VOL. 67
- Earth Remote Sensing Data Analysis Center. 2003. *ASTER Reference Guide Version 1.0*. Diakses pada [http://www.science.aster.ersdac.or.jp/en/documnts/pdf/ASTER\\_Ref\\_V1.pdf](http://www.science.aster.ersdac.or.jp/en/documnts/pdf/ASTER_Ref_V1.pdf)
- Edward M. Barnes, Kenneth A. Sudduth, John W. Hummel, Scott M. Lesch, Dennis L. Corwin, Chenghai Yang, Craig S.T. Daughtry, and Walter C. Bausch. 2003. *Remote and Ground-Based Sensor Techniques to Map Soil Properties*. Photogrammetric Engineering & Remotesensing journal, Volume 69, Number 6.
- ENVI help, 2007.
- Emerson, W.W. 1995. *Water Retention, Organic Carbon and Soil Texture*. Australian Journal of Soil Research.
- Ernest James Neafsey. 2008. *Hyperspectral Sensing of Soil Pedons for Soil Classification and Survey*. Cornell University. New York City. USA.
- FAO. 2001. *Assessment Of Soil Nutrient Balance*, Food and Agriculture Organization of the United Nations, Rome, Italy.
- Farifeth Jamshid, Farshad Abbas. 2002. *Remote Sensing and Modeling of Topsoil Properties, a Clue for Assessing Land Degradation*. International Institute for Geoinformation Science and Earth Observation (ITC). Netherlands.
- Fox, G.A., and Sabbagh, G.J. 2002. *Estimation of Soil Organic Matter from Red and Near-Infrared Remotely Sensed Data Using a Soil Line Euclidean Distance Technique*. Soil Science Society of America Journal.
- Hewson, Taylor, and Whitborn, L.W. .2008. *Application of TIR Imagery and Spectroscopy for the Extraction of Soil Textural Information at Fowlers Gap, Western New South Wales, Australia*. School of Biological Earth and Environmental Science, Sydney, NSW, Australia.



Hively W.D., Van Es H.M., Shindelbeck R.R., Moebius B. N., Owiyo T., Bilgili A.V., Philpot W.D., and DeGloria S.D. 2007. *Use of Visible/Near-Infrared Reflectance Spectroscopy to Assess Soil Quality Related to Long-Term Tillage Effects*. Cornell University, New York.

Ismail Bogrekci and Won Suk Lee. 2004. *Soil Particle Size Effect on Absorbance Spectra of Sandy Soils in UV-VIS-NIR Regions*. University of Florida, Gainesville.

Jeff Ball. 2001. *Soil and Water Relationships*. The Samuel Roberts Noble Foundation, Inc.

Johan SIX, Christian FELLER, Karolien DENEFF, Stephen M. OGLE, Joao Carlos de MORAES SA, Alain ALBRECHT. 2002. *Soil organic matter, biota and aggregation in temperate and tropical soils – Effects of no-tillage*. INRA, EDP Sciences.

Juliet R. 2004. *Spectral Response Analysis of Selected Philippine Agricultural Soils in Varying Nutrient Condition*. University of the Philippines.

Karel Pavelka, Jirina Svatuskova. 2007. *Comparison And Adaptation Of Aster Satellite Data To The Landsat Tm Products*. Czech Technical University.

Keith D. Shepherd and Markus G. Walsh. 2002. *Development of Reflectance Spectral Libraries for Characterization of Soil Properties*. Soil Sci. Soc. Am. J. 66:988–998.

Larson and Pierce. 1994. *The Dynamics of Soil Quality as a Measure of Sustainable Management*, SSSA Special Publication.

Lene Krøl Christensen. 2004. *NPK Deficiencies Discrimination by use of Spectral and Spatial Response*. Agricultural University Denmark.

Madyaka, M. 2008, *Spatial Modelling and Prediction Of Soil Salinization Using Saltmod In A Gis Environment*. International institute for geo-information science and earth observation enschede. The Netherlands.

Matthew J. Cohen, Joseph P. Prenger, and William F. DeBusk. 2005. *Visible-Near Infrared Reflectance Spectroscopy for Rapid, Nondestructive Assessment of Wetland Soil Quality*. Journal of Environmental Quality, Published by ASA, CSSA, and SSSA.

McVay, K.A., Budde, J.A., Fabrizzi, K., Mikha, M.M., Rice, C.W., Schlegel, A.J., Peterson, D.E., Sweeney, D.W., and Thompson C., 2006. *Management Effects On Soil Physical Properties In Long-Term Tillage Studies In Kansas*, Soil Science Society of America Journal.



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UNIVERSITAS  
GAJAH MADA

Michael Whiting. 2001. *Derivation of Soil Composition from Imaging Spectrometer Data at Tomelloso*. University of California.

Michael Abrams and Simon Hook. 2002. *ASTER User Handbook Version 2*. Jet Propulsion Laboratory Oak Grove, CA 91109.

Mila I. Luleva. 2007. *Identification of Soil Property Variation Using Spectral and Statistical*. International Institute for Geo-Information Science and Earth Observation, Enschede, The Netherlands.

Mukashema, Adrie, 2007 *Mapping and Modelling Landscape-based Soil Fertility Change in Relation to Human Induction*. International institute for geo-information science and earth observation enschede. The Netherlands

Numataa, J.V. Soaresb, D.A. Robertsa, F.C. Leonidasc, O.A. Chadwicka, G.T. Batistad. 2002. *Relationships Among Soil Fertility Dynamics And Remotely Sensed Measures Across Pasture Chronosequences In Rondonia, Brazil*. Remote Sensing of Environment 87 (2003) 446–455.

Pasu Kongapai Ms., 2007. *Application Of Remote Sensing And Geographic Information System For Estimation Of Soil Organic Matter In Nakhon Pathom Province*. Faculty of Environment and Resource Studies, Mahidol University.

Pusat Pembinaan dan Pengembangan Bahasa. 2001. *Kamus Matematika*. Balai Pustaka.

Randall B. Smith, Ph.D., 2002. *Introduction Hyperspectral Imaging*. Lincoln, Nebraska 68508-2010 USA.

Randall D. Tobias. 1996. *An Introduction to Partial Least Squares Regression*. SAS Institute Inc., Cary, NC.

Robert Sanderson. 2002. *Introduction to Remote Sensing*. New Mexico State University.

Rosillon Damien, Tychon Bernard. 2008. *Effects of Other Disturbing Factors on Soil Reflectance*. Department of Environmental Sciences and Management, University of Liège, Belgium

Shunlin Liang. 2004. *Quantitative Remote Sensing of Land Surfaces*. John Wiley & Sons, Inc.

Steven C. Hodges. 2003. *Soil fertility basics*. North Carolina State University



- Stuart Thomas Stephens. 2003. *Identifying the Incident Spectral Reflectance of Organic Matter in Soils*. Science Society of America Journal.
- Sudduth, K. A. and J. W. Hummel. 1993. *Portable near infrared spectrophotometer for rapid soil analysis*. Transactions of the ASAE 36 (1): 185-193.
- Susan L. Ustin, Dar A. Roberts, John A. Gamon, Gregory P. Asner, and Robert O. Green. 1998. *Using Imaging Spectroscopy to Study Ecosystem Processes and Properties*. University of California.
- Swain, Philip H. 1978. *Remote Sensing: The Quantitative Approach*. McGraw-Hill International Book Co. USA.
- Teshome Demissie Tolla. 2004. *Effects of Moisture Conditions and Management on Production of Cashew*. International Institute For Geo-Information Science And Earth Observation. Enschede, The Netherlands.
- Thomas Terhoeven Urselmans. 2006. *Usefulness Of Near Infrared Spectroscopy To Assess The Composition And Properties Of Soil, Litter And Growing Media*. Kassel University Press.
- Thomas J. Rice, Ph.D., 2002. *Importance Of Soil Texture To Vineyard Management*. Soil Science Department, California Polytechnic State University, San Luis Obispo, CA Institute of Geography University of Berne.
- Travis Heath Waiser. 2006. *In Situ Characterization Of Soil Properties Using Visible Near-Infrared Diffuse Reflectance Spectroscopy*. Texas A&M University.
- Udelhoven, T., Emmerling, C. & Jarmer, T., 2003, *Quantitative analysis of soil chemical properties with diffuse reflectance spectrometry and partial least square regression: A feasibility study, Plant and soil*. University of Trier Remote Sensing Department.
- Viscarra Rossel R.A. and McBratney A.B., 2006. *Diffuse Reflectance Spectroscopy as a Tool for Digital Soil Mapping*. University of Sydney, McMillan, Sydney.
- Wold, S., Sjostrom, M. & Eriksson, L., 2001, *PLS-regression: a basic tool of chemometrics*. Chemometrics and Intelligent Laboratory Systems, Vol. 58, No. 2. (28 October 2001), pp. 109-130.

