

DAFTAR PUSTAKA

- Aher P D, Adinarayana J, Gorantiwar S D, Sawant S A. 2014. Information System for Integrated Watershed Management Using Remote Sensing and GIS. Switzerland: Springer International Publishing.
- Ahmad S, Simonovic S P. 2014. Spatial System Dynamics : New Approach for Simulation of Water Resources System. Jurnal of Computing in Civil Engineering, Vol. 18, october 2004
- Asdak C. 2002. *Hidrologi dan Pengelolaan DAS*. Yogyakarta: Gadjah Mada University Press
- Armonia. 2007. Assessing and Mapping Multiple Risks For Spatial Planning Approaches, Methodologies And Tools In Europe. A summary of the research undertaken by the (Applied multi Risk Mapping of Natural Hazards for Impact Assessment) research project, funded under the Sixth EU Framework Programme for Research and Technological Development.
- [Bappenas] Badan Perencanaan Pembangunan Nasional. 2010. *Modul Pelatihan ArcGIS 9.3 Tingkat Dasar*. Jakarta: Bappenas.
- Barlas Y. 1996. Formal Aspects of Model Validity and Validation in System Dynamics. System Dynamics Review Vol. 12 No. 3, (Fall 1996): 183-210
- Budiyanto E. 2010. *Sistem Informasi Geografis dengan ArcView GIS*. Yogyakarta: CV Andi Offset.
- Bydłosz J, Hanus P. 2013. The Impact of Landslide Areas on Municipal Spatial Planning. Real Estate Management and Valuation, vol. 21, no. 4, pp. 5-10
- Chen CH, Liu WL, Chiou IJ, Liaw SL. 2012. Integrated Management Methodology for Sustainability and Land Use of a River Basin. Switzerland: Trans Tech Publications, Applied Mechanics and Materials Vols 121-126 pp 2789-2793, www.scintific. net
- Dardak A H. 2006. Kebijakan Penataan Ruang dalam Pengelolaan Kawasan Rawan Bencana Longsor. Makalah. Jakarta: Kerjasama Ditjen Penataan Ruang Departemen Pekerjaan Umum dengan Badan Kejuruan Sipil Persatuan Insinyur Indonesia., 7 Maret 2006
- Darghouth S, Ward C, Gambarelli G, Styger E, Roux J. 2008. Watershed Management Approaches, Policies, and Operations: Lesson for Scaling Up. Washington DC: The World Bank. Paper No. 11 May 2008
- Deni R, Maman D. 2002. Pergeseran Pendekatan dalam Rangka Perencanaan Pengembangan Wilayah/Kwasan di Indonesia, dalam Winarso *et al.* 2002.

Pemikiran dan Praktek Perencanaan dalam Era Transformasi di Indonesia. Bandung: Departemen Teknik Planologi ITB dan Yayasan Sugijanto Soegijoko.

De Smith M.J, M.F. Goodchild, P.A. Longley. 2007. *Geospatial analysis: a comprehensive guide to principles, techniques and software tools*: Troubador Publishing Ltd.

[Dishut Jabar dan SITH ITB] Dinas Kehutanan Provinsi Jawa Barat dan Sekolah Ilmu dan Teknologi Hayati Institut Teknologi Bandung. 2012. *Buku I : Kriteria dan Indikator Pengelolaan Kawasan Lindung dalam Rangka Perwujudan Green Province Jawa Barat*. Jawa Barat: Dinas Kehutanan

Djakapermana R D. 2010. *Pengembangan Wilayah melalui Pendekatan Kesisteman*. Institut Pertanian Bogor. Bogor. IPB Press Kampus Institut Pertanian Bogor, Darmaga Bogor.

[ECEUN] Economic Commission for Europe United Nation. 2008. Spatial Planning : Key Instrument for Development and Effective Governance with Special Reference to Countries in Transition. United Nations New York and Geneva.

[ESCP] Environmental Services City of Portland. 2005. Johnson Creek Watershed Characterizatio. March 2005.

Eriyatno. 2012. *Ilmu Sistem: Meningkatkan Mutu dan Efektivitas Manajemen*. Jilid 1 Edisi 4. Surabaya: Guna Widya

Ernawi IS. 2011. Penerapan Low Carbon Economy dalam Penataan Ruang. Bulletin on line Tata Ruang. ISSN : 1978-1571. Kementerian Pekerjaan Umum Republik Indonesia.

[FAO] Food and Agriculture PBB. 2015. Spatial Planning in the Context of the Responsible Governance of Tenure. EU-FAO.

Forrester JW. 1968. Industrial Dynamics – After the First Decade. Management Science, Vol 14 No. 7, Theory Series (Mar., 1967). www.jstor.org/stable/2628888.

Forrester JW. 1996. System Dinamics and K-12 Teachers : a Lecture at The University of Virginia School of Education. USA: Massachusetts Institute of Technology, Cambridge, MA, May 30.

Fulcher C, Prato T, Zhou Y. 2001. Economic and Environmental Impact Assesment Using a Watershed Management Decision Support Tool. Columbia: University of Missouri, Center Agriculture, Resource and Environmental System (CARES)

- Hartrisari. 2007. *Sistem Dinamik: Konsep Sistem dan Pemodelan untuk Industri dan Lingkungan*. Bogor: IPB, SEAMEO BIOTROP
- Haryadi D. 2015. 25 Daerah Aliran Sungai di Jabar Kritis. [http://bola.inilah.com/read/detail/2173963/Rabu, 28 Januari 2015](http://bola.inilah.com/read/detail/2173963/Rabu,28Januari2015).
- Indarto dan Faisol A. 2012. *Konsep Dasar Analisis Spasial*. Yogyakarta: CV Andi Offset.
- Indarto dan Faisol A. 2013. *Tutorial Ringkas ArcGIS-10*. Yogyakarta: CV Andi Offset.
- Kartodihardjo H, Murtilaksono M, dan Sudadi U. 2004. *Institusi Pengelolaan Daerah Aliran Sungai: Konsep dan Pengantar Analisis Kebijakan*. Bogor: Fakultas Kehutanan Institut Pertanian Bogor
- [Kemen PU RI] Kementerian Pekerjaan Umum Republik Indonesia. 2013. *Dasar-Dasar Sistem Informasi Geografis*. Jakarta. Sekretariat Jenderal Pusat Pengelolaan Data.
- Kerr J. 2007. Watershed Management: Lesson for Common Property Theory. *International Journal of the Commons*, Vol I, No I Oktober 2007, pp 89-109
- Kirkwood CW. 2013. *System Dyanmics Methods: A Quick Introduction*. A Creative Commons Attribution-Non Commercial. <http://creativecommons.org/licenses/by-nc/3.0/>. January 12.
- Krajewska M., Żróbek S., Šubic-Kovač M. 2014. The Role of Spatial Planning in The Investment Process in Poland and Slovenia. *Real Estate Management and Valuation*, vol. 22, no. 2, s. 52-66
- Marimin. 2007. *Teori dan Aplikasi Sistem Pakar dalam Teknologi Manajerial*. Bogor: IPB Press
- Martin LA. 1997a. Introduction to Computer Modeling. dalam *A Guide to Learning System Dynamics*. Massachusetts Institute of Technology, July 24.
- Martin LA. 1997b. An Introduction to Feedback. dalam *A Guide to Learning System Dynamics*. Massachusetts Institute of Technology, Oktober 24.
- Martin LA. 1997c. Beginner Modeling Exercise. dalam *A Guide to Learning System Dynamics*. Massachusetts Institute of Technology, Cambridge, MA, USA. September 5.
- Menteri Pekerjaan Umum. 2005. *Penataan Ruang Daerah Aliran Sungai (DAS) Siak Provinsi Riau*. Departemen Pekerjaan Umum. Seminar Penyelamatan dan Pelestarian DAS Siak di Pekanbaru, 6 Agustus 2005

- Modell Data. 1994. *Powersim Version 2.0 The Complete Software Tool for Dynamic Simulation*. Norway.
- Morecroft J. 1997. *Strategic Modelling and Business Dynamics*. London: John Wiley & Sons Limited. dalam Reynolds, M dan Holwell, S. 2010. *System Approaches to Managing Change: A Practical Guide*. London: Published in Association with Springer-Verlag London Limited.
- Murayama Y, Estoque RC. 2010. *Fundamentals of Geographic Information System*. Jepang. University of Tsukuba.
- Neuwirth C, Barbara H, Angela P. 2015. Spatiotemporal Process and Their Implementation in Spatial System Dynamics Models. Taylor and Francis Group. *Journal of Spatial Science*, Vol. 60. No. 2, 277-288, <http://dx.doi.org>.
- Neuwirth C, Peck A. 2013. A Conceptual Spatial System Dynamics (SSD) Model for Structural Change in Grassland Farming. 20th International Congress on Modelling and Simulation. Adelaide, Australia, 1–6 December 2013 www.mssanz.org.au/modsim2013
- Neuwirth C, Peck A, Simonovic S.P. 2014. Modeling Structural Change in Spatial System Dynamics : A Daisyworld Example. [www. Elsevier.com/locate/envsoft](http://www.Elsevier.com/locate/envsoft)
- Neuman, W L. 2000. *Social Research Methods : Qualitative and Quantitative Approaches*. Fourth Edition. USA: Allyn and Bacon.
- Nichersu I, Iacoboaia C. 2011. Systematic Spatial Planning. Theoretical and Empirical Researches in Urban Management. Volume 6 Issue 2 May 2011
- Niazi A, Prasher SO, Adamowski J, Gleeson T. 2014. A System Dynamics Model to Conserve Arid Region Water Resources through Aquifer Storage and recovery in Conjunction with a Dam. www.mdpi.com/journal/water. August 7.
- Nikolic VV, Simonovic SP, Milicevic DB. 2012. Analytical Support for Integrated Water Resources Management : A New Methode for Addressing Spatial and Temporal Variability. *Water Resour Manage* (2013) 27:401-417.
- Nugroho S P. 2003. Pergeseran Kebijakan dan Paradigma Baru dalam Pengelolaan Daerah Aliran Sungai Di Indonesia. *J.Tek.Ling. P3TL-BPPT.4(3)*: 136-142
- Oetomo A. 2002. Transisi Otonomi Daerah di Indonesia : Dilema Bagi Penataan Ruang Berkelanjutan? dalam Winarso *et al.* 2002. *Pemikiran dan Praktek Perencanaan dalam Era Transformasi di Indonesia*. Bandung: Departemen Teknik Planologi ITB dan Yayasan Sugijanto Soegijoko.

- P4W. Kajian Model Dinamik Penataan Ruang Kehutanan. Modul 2. Badan Planologi Kehutanan
- Patton MQ. 1990. *Qualitative Evaluation and Research Methods*. California: Sage Publication, Inc.
- Peck A, Neuwirt C, Simonovic, SP. 2014. Coupling System Dynamics with Geographic Information Systems : CCaR Project Report. The University of Western Ontario Department of Civil and Environmental Engineering. Canada, Report No. 086 March 2014.
- Pinem F, Purnomo S. Integration of System dynamic and Spatial Dynamic Models to Support Regional Development Planning (Case Study in Java Madura Bali).
- Putra E P. 2013. Kondisi Citarum di Hulu dan Hilir. [www. republika. co. id/berita/nasional/umum](http://www.republika.co.id/berita/nasional/umum). Minggu, 2 Juni 2013
- Reddy R L, Apoor B, Snigdha S, Spandana K. 2013. GIS Aplication in Land Use and Land Development of a City. *International Journal of Emerging Technology and Advanced Engineering*. Volume 3, Issue 5, May.
- Reyes LFL, Diker VG, Andersen DL. Interviewing as a Strategy for the Assesment of System Dynamics Model.
- Radzicki MJ, Taylor RA. 1997. *Introduction to System Dynamics : A System Approach to Understanding Complex Policy Issues*. US Department of Energy, Office of Policy and International Affairs, Office of Science and Technology Policy and Cooperation.
- Rustiadi ES, Saefulhakim, Dyah R. Panuju. 2009. *Perencanaan dan Pengembangan Wilayah*. Jakarta: Crestpent Press dan Yayasan Obor Indonesia.
- Sahin Oz. 2012. *Dynamic Assesment of Coastal Vulnerability and Adaptation to Seal Level Rise: An Integrated Spatial-Temporal Decision Making Approach*. Thesis Doctoral. Australia: Griffith School of Engineering Science, Environment, Engineering and Technology Griffith University.
- Soegijoko B T S. 2011. Pergeseran Konsepsi dan Pendekatan dalam Perencanaan Pembangunan Wilayah dan Kota di Indonesia. dalam Gunawan, Myra P. 2011. *Menariik Pelajaran dari 50 Tahun Perjalanan Perencanaan Wilayah dan Kota di Indonesia*. Penerbit ITB bekerjasama dengan Yayasan Sugijanto Soegijoko.
- Soesilo B, Karuniasa M. 2014. *Permodelan System Dynamics: Untuk Berbagai Bidang Ilmu Pengetahuan Kebijakan Pemerintah dan Bisnis*. Jakarta: Lembaga Penerbit Fakultas Ekonomi Universitas Indonesia.

- Sosrodarsono S, Takeda K. 2003. *Hidrologi untuk Pengairan*. Jakarta: PT Pradnya Paramita.
- Smith M D, Sanchirico J N, Wilen J E. 2007. The Economics of Spatial-Dynamic Processes : Applications to Renewable Resources. Discussion Papers, The Frontiers of Environmental Economics, April 2007
- Snyder G, Lindemann P, Word W, Boorin J, Raymond A. 2003. Upper Grand River Watershed Management Plan. Tetra Tech MPS, Desember 1
- Sutanta H. 2012. Spatial Planning Support System for an Integrated Approach to Disaster Risk Reduction. [Thesis] submitted to The University of Melbourne in fulfillment of the degree of Doctor of Philosophy. Australia: Centre for Spatial Data Infrastructures and Land Administration Department of Infrastructure Engineering, School of Engineering The University of Melbourne Victoria.
- Sterman JD. 2000. System Thinking and Modelling for a Complex World. Amerika. Irwin/McGraw-Hill. E-mail : jsterman@mit.edu.
- Sterman JD. 2002a. All Model are Wrong : Reflections on Becoming a System Scientist. System Dynamics Review Vol. 18 No. 4 (Winter 2002); 501-531.
- Sterman JD. 2002b. System Dynamics: System Thinking and Modeling for a Complex World. Cambridge: Massachusetts Institute of Technology Engineering System Division. May 29-30.
- Sudaryono. 2002. Pengelolaan Daerah Aliran Sungai (DAS) Terpadu, Konsep Pembangunan Berkelanjutan. Jurnal Teknologi Lingkungan, Vol 3 No. 2, Mei 2002.
- Swedish Environmental Protection Agency. 2013. Background and Rationale for the Research Initiative : Spatial Planning for Reduced Environmental Impact. Swedish: Naturt Vards Verket. 14 June 2013
- Tiwari MK, Saxena A, Katara V, Chakravartya S. 2012. Impression of Sustainable Development Plan for Industrial Region Using Geospatial Technology. International Journal of Advanced Technology & Engineering Research (IJATE) Volume 2, Issue 1, January.
- [UN] United Nations. 2000. *Handbook on Geographic Information System and Digital Mapping*. New York: Department of Economic and Social Affairs Statistics Division. Series F No. 79
- [UNECE] United Nation Economic Commission for Europe. 2008. Spatial Planning : Key Instrumen for Development and Effective Governance with Special Reference to Countries in Transition. United Nation

- [USAID] United States Agency for International Development. 2005. Geographic Information Systems: Applications and Practices for USAID Natural Resources Management Programs. Washington: USAID The Natural Resources Information Clearinghouse, Chemonics International Inc, BIOFOR IQC. June
- Verhaeghe RJ, Zondag B. 2009. Challenges in Spatial Planning for Java. Delft University of Technology. www.significance.nl/papers/2009-IRSA.
- Wangsaatmadja S. 2007. Evaluasi Kebijakan Pengendalian Pencemaran Sungai Citarum Hulu Melalui Pendekatan Daerah Aliran Sungai Terpadu. Jurnal Infrastruktur dan Lingkungan Binaan Infrastructure and Built Environment Vol. III No. 2, Desember 2007.
- Wangsaatmaja S, Arwin S, Maria A N P. 2006. Permasalahan Dan Strategi Pembangunan Lingkungan Berkelanjutan Studi Kasus: Cekungan Bandung. Jurnal Geologi Indonesia, Vol. 1 No. 3 September 2006: 163-171
- Wilson E, Piper J. 2010. Spatial Planning and Climate Change. Routledge 2 Park Square, Milton Park, Abingdon, Oxon.
- Zhang X, Yeqiao W. 2001. Spatial Dynamic Modeling for Urban Development. Photogrammetric Engineering and Remote Sensing Vol 67, No 9 September 2001, pp 1049-1057
- Zhu H. 2001. Beginner Modeling Exercise : Mental Simulation of Simple Negative Feedback. Section 3. Massachusetts Institute of Technology. October.