DAFTAR PUSTAKA

AASHTO, 1993, *AASHTO Guide for Design of Pavement Structures*, American Association of State Highway and Transportation Officials (AASHTO), Washington D.C., United States of America.

AASHTO, 2011, Standard Method of Test for Resistance of Compacted Hot Mix Asphalt (HMA) to Moisture-Induced Damage, *AASHTO Designation: T 283-07*, American Association of State Highway and Transportation Officials (AASHTO), Washington, D.C., United States of America.

AASHTO, 2013, Standard Practice for Mixture Conditioning of Hot Mix Asphalt (HMA), *AASHTO Designation: R 30-02 (2010)*, June 2013 Edition, American Association of State Highway and Transportation Officials (AASHTO), Washington, D.C., United States of America.

Abo-Qudais, S., and H. Al-Shweily, 2007a, Effect of Antistripping Additives on Environmental Damage of Bituminous Mixtures, *Building and Environment*, 42(8):2929–2938, 2007.

Abo-Qudais, S., and H. Al-Shweily, 2007b, Effect of Aggregate Properties on Asphalt Mixtures Stripping and Creep Behavior, *Construction and Building Materials*, 21(9):1886–1898, 2007.

Ahmad, J., N.I.Md. Yusoff, M.R. Hainin, M.Y. Abd Rahman, and M. Hossain, 2014, Investigation into Hot-Mix Asphalt Moisture-Induced Damage under Tropical Climatic Conditions, *Construction and Building Materials*, 50:567–576, 2014.

Ahmad, M., 2013, Permeability and Moisture Damage Characteristics of Asphalt Pavement, *MSc Thesis*, University of New Mexico, United States of America.

Airey, G. D., Collop, A. C., Zoorob, S. E., and Elliott, R. C., 2008, The influence of aggregate , filler and bitumen on asphalt mixture moisture damage. *Construction and Building Materials*, 22:2015–2024, 2008.

Aksoy, A., K. Şamlioglu, S., Tayfur, and H. Özen, 2005, Effects of various additives on the moisture damage sensitivity of asphalt mixtures. *Construction and Building Materials*, 19(1):11–18, 2005.

Al Swailmi, S.H., 1992, Development of a Test Procedure for Water Sensitivity of Asphalt Concrete Mixtures, *Ph.D Dissertation*, Oregon State University, United States of America.

Ali, N., M.W. Tjaronge, L. Samang, and M.I. Ramli, 2011, Experimental Study on Effects of Flood Puddle to Durability of Asphaltic Concrete Containing Refined Butonic Asphalt, *Journal of the Eastern Asia Society for Transportation Studies*, 9:1364–1375, 2011.

Al-Qadi, I. L., I.M. Abuawad, H. Dhasmana, A.R. Coenen, and J.S. Trepanier, 2014, *Effects of Various Asphalt Binder Additives/Modifiers on Moisture-Susceptible Asphalt Mixtures*, Research Report FHWA-ICT-14-004, Federal Highway Administration (FHWA)-Illinois Center for Transportation (ICT), United States of America.

Antaranews.com, 2014, Banjir Sisakan Banyak Lubang di Jalur Pantura, *http://www.antaranews.com/berita/415923/banjir-sisakanbanyaklubang-di-jalur-pantura*, [diakses 02 Juni 2016, 23:50].

Apeagyei, A.K., J.R.A. Grenfell, and G.D. Airey, 2014, Observation of reversible moisture damage in asphalt mixtures, *Construction and Building Materials*, 60:73–80, 2014.

Asi, I.M., 2006, Laboratory Comparison Study for the Use of Stone Matrix Asphalt in Hot Weather Climates, *Construction and Building Materials*, 20(10):982–989, 2006.

Asphalt Institute, 1981, *Cause and Prevention of Stripping in Asphalt Pavements; Educational Series No. 10 (ES-10),* Asphalt Institute, United States of America.

Asphalt Institute, 1984, *Drainage of Asphalt Pavement Structures; Manual Series No. 15 (MS-15)*, Asphalt Institute, United States of America.

Asphalt Institute, 1989, *The Asphalt Handbook; Manual Series No. 4 (MS-4),* Asphalt Institute, United States of America.

Asphalt Institute, 1993, *Mix Design Methods: For Asphalt Concrete and Other Hot-Mix Types; Manual Series No. 2 (MS-2),* 6th Edition, Asphalt Institute, United States of America.

Asphalt Institute, 1996, *Superpave Level 1 Mix Design; Superpave Series No. 2 (SP-2),* Asphalt Institute, United States of America.

Asphalt Institute, 2001, HMA *Construction of Hot Mix Asphalt Pavements; Manual Series No. 22 (HMA Construction)*, Asphalt Institute, United States of America.

Asphalt Institute, 2014, *Asphalt Mix Design Methods; Manual Series No. 02 (MS-2),* 7th Edition, Asphalt Institute, United States of America.

Asphalt Pavement Alliance, 2010, High Performance Intersections, Asphalt Pavement Alliance, *www.asphaltroads.org.*

ASTM, 2004, Standard Test Method for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures, *Annual Book of ASTM Standards,* American Standard Testing and Material (ASTM), ASTM D 7012-04, ASTM International, United States of America.

ASTM, 2007, Standard Test Method for Effect of Water on Compressive Strength of Compacted Bituminous Mixtures, *Annual Book of ASTM Standards,* American Standard Testing and Material (ASTM), ASTM D1075-07, ASTM International, United States of America.

ASTM, 2013a, Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete, *Annual Book of ASTM Standards,* American Standard Testing and Material (ASTM), ASTM C42/C42M-13, ASTM International, United States of America.

ASTM, 2013b, Standard Test Method for Unconfined Compressive Strength of Cohesive Soil, *Annual Book of ASTM Standards,* American Standard Testing and Material (ASTM), ASTM D2166/D2166M-13, ASTM International, United States of America.

Atkins, H.N., 1997, *Highway Materials, Soils, and Concretes,* 3rd Edition, Prentice Hall, New Jersey, United States of America.

Austroads, 1987, *A Guide to the Visual Assessment of Pavement Condition,* Reprint 19, Austroads National Office, Sydney, Australia.

Austroads, 1992, *Pavement Design: A Guide to the Structural Design of Road Pavements*, Revised 19, Sydney, Australia.

Bagampadde, U., U. Isacsson, and B.M. Kiggundu, 2006, Impact of Bitumen and Aggregate Composition on Stripping in Bituminous Mixtures, *Materials and Structures*, 39:303–315, 2006.

Bahia, H., A. Hanz, K. Kanitpong, and H. Wen, 2007, *Method to Determine Aggregate/Asphalt Adhesion Properties and Potential Moisture Damage*, Wisconsin Highway Research Program, Wisconsin Department of Transportation, United States of America.

Behiry, A.E.A.E., 2013, Laboratory evaluation of resistance to moisture damage in asphalt mixtures, *Ain Shams Engineering Journal*, 4(3):351–363, 2013.

Bell, C.A., Y. Abwahab, M.E. Cristi, and D. Sosnovske, 1994, *Selection of Laboratory Aging Procedures for Asphalt-Aggregate Mixtures*, Strategic Highway Research Program (SHRP) A-383, National Research Council, Washington D.C., United States of America.

Blazek, J., G. Sebor, D. Maxa, M. Ajib, H. and Paniagua, 2000, Effect of Hydrated Lime Addition on Properties of Asphalt. *Petroleum and Coal*, 42 (1): 41–45, 2000.

BPS, 2015, *Statistik Indonesia 2015*, Badan Pusat Statistik (BPS), Jakarta.

Brown, G. O., 2002, Henry Darcy and the Making of A Law, *Water Resources Research,* 38(7):1–12, 2002.

Callister, W.D., 2001, *Fundamentals of Materials Science and Engineering: An Interactive E. Text*, 5th Edition, John Wiley & Sons, Inc., New York, United States of America.

Chen, J.-S., K.-Y. Lin, and S.-Y. Young, 2004, Effects of Crack Width and Permeability on Effects of Crack Width and Permeability on Moisture-Induced Damage of Pavements Moisture-Induced Damage of Pavements. *Journal of Materials in Civil Engineering*, 16(3):276–282, 2004.

Chen, X., and B. Huang, 2008, Evaluation of Moisture Damage in Hot Mix Asphalt Using Simple Performance and Superpave Indirect Tensile Tests, *Construction and Building Materials*, 22(9):1950–1962, 2008.

Cooley Jr., L.A., P.S. Kandhal, M.S. Buchanan, F. Fee, and A. Epps, 2000, Loaded Wheel Testers in the United States: State of the Practice, *Transportation Research E-Circular No. E-C016*, National Center for Asphalt Technology (NCAT) Auburn University, Auburn, United States of America.

Copeland, A.R., 2007, Influence of Moisture on Bond Strength of Asphalt-Aggregate Systems, *Ph.D Dissertation*, Vanderbilt University, Nashville, Tenneses, United States of America.

Craus, J., Ishai I., and A. Sides, 1981, Durability of Bituminous Paving Mixtures as Related to Filler Type and Properties, *Proceedings of Association of Asphalt Paving Technologists*, 50:291–318, 1981.

Crovetti, J., 2009, Analysis of Load-Induced Strains in a Hot Mix Asphalt Perpetual Pavement, *Final Report*, WisDOT Report FEP 01-09 Wisconsin Department of Transportation, United States of America.

Cui, S., B.R.K. Blackman, A.J. Kinloch, and A.C. Taylor, 2014, Durability of Asphalt Mixtures: Effect of Aggregate Type and Adhesion Promoters, *International Journal of Adhesion and Adhesives*, 54:100–111, 2014.

Curtis, C.W., K. Ensley, and J. Epps, 1993, *Fundamental Properties of Asphalt-Aggregate Interactions Including Adhesion and Absorption*, Strategic Highway Research Program (SHRP) A-341, National Research Council, Washington D.C., United States of America.

Dawson, A., 2008, *Water in Road Structures,* Springer, Nottingham Transportation Engineering Centre, University of Nottingham, United Kingdom.

Departemen Pekejaan Umum, 1989, *Tata Cara Pelaksanaan Lapis Aspal Beton (Laston) untuk Jalan Raya SNI 03-1737-1989*, Pusat Transportasi, Badan Penelitian dan Pengembangan Pekerjaan Umum, Jakarta.

Departemen Pekerjaan Umum, 1987, *Petunjuk Pelaksanaan Lapis Aspal Beton (Laston) untuk Jalan Raya*, Yayasan Badan Penerbit Pekerjaan Umum, Jakarta.

Ditjen Bina Marga, 1983, *Petunjuk Pelaksanaan Lapis Aspal Beton (Laston) No.13/PT/B/1983*, Departemen Pekerjaan Umum, Direktorat Jenderal Bina Marga, Jakarta.

Ditjen Bina Marga, 1992, *Road Rehabilitation Project III, Volume 3, General Specification*, Direktorat Jenderal Bina Marga, Jakarta.

Ditjen Bina Marga, 1999, *Pedoman Perencanaan Campuran beraspal dengan Pendekatan Kepadatan Mutlak*, Departemen Pekerjaan Umum, Direktorat Jenderal Bina Marga, Yayasan Badan Penerbit Pekerjaan Umum, Jakarta.

Ditjen Bina Marga, 2002, Pedoman Perencanaan Tebal Perkerasan Lentur-Pt T-01-2002-B, Direktorat Jenderal Bina Marga, Jakarta.

Ditjen Bina Marga, 2005, *Divisi 6: Perkerasan Aspal, Spesifikasi Umum*, Kementerian Pekerjaan Umum, Direktorat Jenderal Bina Marga, Jakarta.

Ditjen Bina Marga, 2007, *Divisi 6: Perkerasan Aspal, Spesifikasi Umum*, Kementerian Pekerjaan Umum, Direktorat Jenderal Bina Marga, Jakarta.

Ditjen Bina Marga, 2010, *Divisi 6: Perkerasan Aspal, Spesifikasi Umum*, Kementerian Pekerjaan Umum, Direktorat Jenderal Bina Marga, Jakarta.

Ditjen Bina Marga, 2011, *Divisi 6: Perkerasan Aspal, Spesifikasi Umum, Edisi 2010 Revisi 1*, Kementerian Pekerjaan Umum, Direktorat Jenderal Bina Marga, Jakarta.

Ditjen Bina Marga, 2012, *Divisi 6: Perkerasan Aspal, Spesifikasi Umum, Edisi 2010 Revisi 2*, Kementerian Pekerjaan Umum, Direktorat Jenderal Bina Marga, Jakarta.

Ditjen Bina Marga, 2013, *Manual Desain Perkerasan Jalan*, Kementerian Pekerjaan Umum, Direktorat Jenderal Bina Marga, Jakarta.

Ditjen Bina Marga, 2014, *Divisi 6: Perkerasan Aspal, Spesifikasi Umum, Edisi 2010 Revisi 3*, Kementerian Pekerjaan Umum Direktorat, Jenderal Bina Marga, Jakarta.

Effendi, H., 2003, *Telaah Kualitas Air bagi Pengelolaan Sumber Daya dan Lingkungan Perairan*, Cetakan ke-9, PT. Kanisius, Yogyakarta.

Effendi, H., 2004, Tinjauan Daya Tahan Lama terhadap Air Sungai Berlumpur pada Campuran Beton Aspal, *Master Thesis*, Magister Sistem dan Teknik Transportasi Universitas Gadjah Mada Yogyakarta, tidak dipublikasikan.

Epps, J., E. Berger, and J.N. Anagnos, 2003, Treatments, Moisture Sensitivity of Asphalt Pavements, A National Seminar, February 4-6, 2003, San Diego, California, *Transportation Research Board* of The National Academies, Washington D.C., United States of America.

Findley, W. N., J.S. Lai, and K. Onaran, 1976, *Creep and Relaxation of Nonlinear Viscoelastic Materials*, North-Holland Publishing Company, Hungary.

Fromm, H.J., 1974, The Mechanisms of Asphalt Stripping from Aggregate Surfaces, *Proceedings of Association of Asphalt Paving Technologists*, 43:191–223, 1974.

Fwa, T. F., S.A. Tan, and L.Y. Zhu, 2004, Rutting Prediction of Asphalt Pavement Layer Using C-ϕ Model. *Journal of Transportation Engineering*, 130(5):675–683, 2004.

Gaus, A., M.W. Tjaronge, N. Ali, and R. Djamaluddin, 2015, Compressive Strength of Asphalt Concrete Binder Course (AC-BC) Mixture Using Buton Granular Asphalt (BGA), *Procedia Engineering*, 125:657–662, 2015.

Griffith, A., 2009, *SPSS For Dummies*, 2nd Edition, Wiley Publishing, Inc., Indiana.

Habeeb, H., S. Chandra, and Y. Nashaat, 2014, Estimation of Moisture Damage and Permanent Deformation in Asphalt Mixture from Aggregate Gradation, *Korean Society of Civil Engineers (KSCE) Journal of Civil Engineering,* 18(6):1655–1663, 2014.

Hadiwardoyo, S.P., dan H. Fikri, 2013, Use of Buton Asphalt Additive on Moisture Damage Sensitivity and Rutting Performance of Asphalt Mixtures, *Civil and Environmental Research*, 3(3):100–109, 2013.

Hardiana, D., 2002, Tinjauan Daya Tahan Lama pada Campuran Beton Aspal, *Master Thesis*, Magister Sistem dan Teknik Transportasi Universitas Gadjah Mada Yogyakarta, tidak dipublikasikan.

Hardiyatmo, H.C., 2015, *Perancangan Perkerasan Jalan dan Penyelidikan Tanah*, Edisi Kedua, Gadjah Mada University Press, Yogyakarta.

Harinaldi, 2005, *Prinsip-Prinsip Statistik untuk Teknik dan Sains*, Penerbit Erlangga, Jakarta.

Hicks, G.R., L. Santucci, and T. Aschenbrener, 2003, Introduction and Seminar Objectives, Moisture Sensitivity of Asphalt Pavements, A National Seminar, February 4-6, 2003, San Diego, California, *Transportation Research Board* of The National Academies, Washington D.C., United States of America.

Hossain, M.I., and R.A. Tarefder, 2013, Effects of Moisture in Asphalt Concrete, *Basic Research Journal of Engineering Innovation*, 1(1):16-25, 2013.

Huang, Y., R.N. Bird, and O. Heidrich, 2007, A Review of the Use of Recycled Solid Waste Materials in Asphalt Pavements, *Resources, Conservation and Recycling*, 52(1):58–73, 2007.

Huang, Y.H., 2004, *Pavement Analysis and Design*, 2nd Edition, Pearson Prentice Hall, Pearson Education Inc., Upper Sadle River, New Jersey, United States of America.

Hudson, W.R., and T.W. Kennedy, 1968, *An Indirect Tensile Test for Stabilized Materials*, Research Report Number 98-1, Center for Highway Research, University of Texas at Austin.

Hunter, R.N., A. Self, and J. Read, 2015, *The Shell Bitumen Handbook,* 6th Edition, Thomas Telford Publishing, London, United Kingdom.

Ishai, I., and J. Craus, 1977, Effect of The Filler on Aggregate-Bitumen Adhesion Properties in Bituminous Mixtures. *Proceedings of the Association Asphalt Paving Technologists* 43: 228–258, 1977.

Ishai, I., and J. Craus, 1996, Effects of Some Aggregate and Filler Characteristics on Behavior and Durability of Asphalt Paving Mixtures, Transportation Research Record, *Journal of the Transportation Research Board,* 1530:75–85, 1996.

Ishai, I., and S. Nesichi, 1989, Laboratory Evaluation of Moisture Damage to Bituminous Paving Mixtures by Long Time Hot Immersion, *Transport Research Record,* 1171:12–17, 1989.

Kandhal, P., and I.J. Rickards, 2001, Premature Failure of Asphalt Overlays from Stripping: Case Histories, *Proceedings of Association of Asphalt Paving Technologists*, 70:301–351, 2001.

Kanitpong, K., N. Charoentham, and S. Likitlersuang, 2012, Investigation on the Effects of Gradation and Aggregate Type to Moisture Damage of Warm Mix Asphalt Modified with Sasobit, *International Journal of Pavement Engineering*, 13(5):451–458, 2012.

KBBI, 2018, Banjir, Kamus Besar Bahasa Indonesia (KBBI) daring, *https://kbbi.kemdikbud.go.id/entri/banjir*, [diakses 16 Januari 2018, 08:51].

Khatri, M.A., 2005, Selection of Mixing and Compaction Temperatures for Hot Mix Asphalt Mixtures Produced with Modified Binders, *Ph.D Dissertation*, University of Wisconsin-Madison, United States of America.

Khodaii, A., H.F. Haghshenas, and H.K. Tehrani, 2012, Effect of Grading and Lime Content on HMA Stripping Using Statistical Methodology, *Construction and Building Materials*, 34:131–135, 2012.

Kim, Y.R., J.S. Lutif, A. Bhasin, and D.N. Little, 2008, Evaluation of Moisture Damage Mechanisms and Effects of Hydrated Lime in Asphalt Mixtures through Measurements of Mixture Component Properties and Performance Testing, *Journal of Materials in Civil Engineering*, 20(10):659–667, 2008.

Kliewer, J.E., 1994, Development of Performance Based Test Procedures for Asphalt Mixtures, *Ph.D Dissertation*, Oregon State University.

Kodoatie, R.J., 2013, *Rekayasa dan Manajemen Banjir Kota*, Penerbit ANDI, Yogyakarta.

Kök, B.V. and M. Yilmaz, 2009, The Effects of Using Lime and Styrene–Butadiene–Styrene on Moisture Sensitivity Resistance of Hot Mix Asphalt, *Construction and Building Materials*, 23(5):1999–2006, 2009.

Kök, B.V., and H. Çolak, 2011, Laboratory Comparison of the Crumb-Rubber and SBS Modified Bitumen and Hot Mix Asphalt, *Construction and Building Materials*, 25(8):3204–3212, 2011.

Kompas, 2015, *Buku Pintar Kompas 2014*, PT Kompas Media Nusantara, Jakarta.

Kringos, N., T. Scarpas, C. Kasbergen, and P. Selvadurai, 2008, Modelling of Combined Physical–Mechanical Moisture-Induced Damage in Asphaltic Mixes, Part 1: Governing Processes and Formulations, *International Journal of Pavement Engineering*, 9(2):115–128, 2008.

Kubo, K., 2004, *Pavement in Japan*, Public Works Research Institute, Japan.

Kumar, P., and P. Anand, 2012, Laboratory Study on Moisture Susceptibility of Dense Graded Mixes, *Journal of Transportation Engineering*, 138(1): 105–113, 2012.

Lavin, P.G., 2003, *Asphalt Pavements: A Practical Guide to Design, Production and Maintenance for Engineers and Architects*, Spon Press, Taylor and Francis Group, New York.

Leon, L., R. Charles, and N. Simpson, Stress-strain behaviour of asphalt concrete in compression, *Procedia Structural Integrity*, 2:2913–2920, 2016.

Lilliefors, H.W., 1967, On the Kolmogorov-Smirnov Test for Normality with Mean and Variance Unknown, *Journal of the American Statistical Association*, 62(318):399–402, 1967.

Liputan6.com, 2014, 130 Km Jalan di Jateng Rusak Parah Akibat Banjir, *http://bisnis.liputan6.com/read/830163/130-km-jalan-di-jateng-rusakparah-akibat-banjir*, [diakses 1 Desember 2014].

Little, D.N., and D.R. Jones IV, 2003, Chemical and Mechanical Processes of Moisture Damage in Hot-Mix Asphalt Pavements, Moisture Sensitivity of Asphalt Pavements, A National Seminar, February 4-6, 2003, San Diego, California, *Transportation Research Board* of The National Academies, Washington D.C., United States of America.

Lu, Q., 2005, Investigation of Conditions for Moisture Damage in Asphalt Concrete and Appropriate Laboratory Test Methods, *Ph.D Dissertation*, University of California, Berkeley, United States of America.

Lu, Q., and J.T. Harvey, 2005, *Investigation of Conditions for Moisture Damage in Asphalt Concrete and Appropriate Laboratory Test Methods*, Research Report: UCPRC-RR-2005-15, University of California Pavement Research Center (UCPRC), United States of America.

Maruto, 1987, *AF-16 Asphalt Permeability Apparatus*, Instruction Manual, Maruto Testing Machine Co., Japan.

McKillup, S., 2005, *Statistics Explained An Introductory Guide for Life Scientists*, Cambridge University Press, New York, United States of America.

Megson, T.H.G., 2005, *Structural and Stress Analysis*, 2nd Edition, Elsevier Butterworth Heinemann, United Kingdom.

Mehrara, A., and A. Khodaii, 2013, A Review of State of the Art on Stripping Phenomenon in Asphalt Concrete, *Construction and Building Materials*, 38(424):423–442, 2013.

Merdeka.com, 2014, Ini 5 banjir besar yang pernah melumpuhkan Jakarta, *http://www.merdeka.com/peristiwa/ini-5-banjir-besar-yang-pernahmelumpuhkan-jakarta/banjir-besar-pada-2007.html* [diakses 02 Juni 2016, 22:20]

Mohamady, A., Mousa, B. E.-D. A., & El-Mitiny, M. R., 2003, Measuring And Evaluating Modulus oof Elasticity of Asphalt Mixtures Using Plastometer, *Mansoura Engineering Journal*, 28, 3(9):11, 2003.

Mohamed, E. H. H., 1994, Debonding Location in Asphalt Concrete Associated with Moisture Damage, *Journal of Materials in Civil Engineering*, 5(4):497–509, 1994.

Montgomery, D.C., 2001, *Design and Analysis of Experiments*, 5th Edition, John Wiley & Sons, Inc., United States of America.

Montgomery, D.C., and G.C. Runger, 2014, *Applied Statistics and Probability for Engineers*, 6th Edition, John Wiley & Sons, Inc., United States of America.

Motaleb, M. A., & Mohamady, A., 2004, A Simplified Technique for Measuring Dynamic Modulus of Asphalt Concrete. *Mansoura Engineering Journal*, 29, 3(9):1-11, 2004.

Mugisidi, D., & O. Heriyani, 2014, Karakterisasi Air Banjir sebagai Air Baku untuk Air Minum. In *Simposium Nasional Teknologi Terapan* (SNTT), pages 1–5.

Mulyono, A.T., 2007, Model Monitoring dan Evaluasi Pemberlakuan Standar Mutu Perkerasan Jalan Berbasis Pendekatan Sistemik, *Ph.D Dissertation*, Universitas Diponegoro Semarang.

Murjanto, D., 2014, Perbaiki Jalan Rusak Akibat Banjir, PU Butuh Rp 2,12 Triliun, accessed January 1, 2017, from *www.pu.go.id/main/view_pdf/9215.*

Nainggolan, H., Rahmantya, K. F., Asianto, A. D., Wibowo, D., Wahyuni, T., dan Somad, W. A., 2014, *Kelautan dan Perikanan dalam Angka 2014*, Pusat Data Statistik dan Informasi Kementrian Kelautan dan Perikanan (PDSIKKP).

Neville, A. M., 2004, *Properties of Concrete, Fourth and Final Edition*, Pearson, Prentice Hall, England.

O'Flaherty, C. A., 2002, *Highways: The Location, Design, Construction and Maintenance of Pavements*, 4th Edition, Butterworth-Heinemann.

Ortuzar, J. de D., and L. G. Willumsen, 2011, *Modelling Transport*, 4th edition, John Wiley & Sons, Ltd., United Kingdom.

Palupi, D. S., Suharyanto, dan Karyono, 2009, *Fisika untuk SMA dan MA Kelas XI*, Pusat Perbukuan Departemen Pendidikan Nasional, Jakarta.

Pangaraya, D.K., 2014, Kajian Laboratorium Penggunaan Aspal Starbit E-55 Modifikasi Polimer pada Asphalt Concrete Wearing Course (AC-WC) ditinjau dari Durabilitas dan Indirect Tensile Strength, *Master Thesis*, Magister Sistem dan Teknik Transportasi Universitas Gadjah Mada Yogyakarta, tidak dipublikasikan.

Papagiannakis, A.T., and E.A. Masad, 2008, *Pavement Design and Materials*, John Wiley & Sons, Inc, Hoboken, New Jersey, United States of America.

Pavement Interactive, 2018, Pavement Distress, *http://www.pavementinteractive.org/general-guidancepavement-distress/* [diakses 01 April 2018, 14:35].

PT. Bintang Djaja, 2014, *Petunjuk Praktis Bahan Konstruksi Bangunan dan Rekayasa Sipil-Penggunaan Aspal Polimer Starbit dalam Campuran Beraspal Panas*, PT. Bintang Djaja, Semarang.

Read, J., dan D. Whiteoak, 2003, *The Shell Bitumen Handbook*, 5th Edition, Thomas Telford Publishing, London, United Kingdom.

Read, J.M., and A.C. Collop, 1997, Practical Fatigue Characterisation of Bituminous Paving Mixtures, *Proceedings of Association of Asphalt Paving Technologists*, 66:75–108, 1997.

Roberts, F. L., P.S. Kandhal, E.R. Brown, D.Y. Lee, and T.W. Kennedy, 1996, *Hot Mix Asphalt Materials, Mixture Design, and Construction*, 2nd Edition, National Asphalt Pavement Association (NAPA) Education Foundation 5100 Forbes Blvd. Lanham, Maryland, United States of America.

Roque, R., and W. G. Buttlar, 1993, The Development of Measurement and Analysis System to Accurately Determine Asphalt Concrete Properties Using The Indirect Tensile Strength, *Proceedings of Association of Asphalt Paving Technologist*, 61:304–332, 1993.

Ruan, Y., R. R. Davison, and C.J. Glover, 2003, The effect of Long-term Oxidation on the Rheological Properties of Polymer Modified Asphalts, *Fuel*, 82(14):1763–1773, 2003.

Sánchez-leal, F.J., 2007, Gradation Chart for Asphalt Mixes : Development. *Journal of Materials in Civil Engineering*, 19(2):185–197, 2007.

Sangsefidi, E., H. Ziari, and M. Sangsefidi, 2016, The effect of aggregate gradation on creep and moisture susceptibility performance of warm mix asphalt, *Korean Society of Civil Engineers (KSCE) Journal of Civil Engineering*, 20(1):385–392, 2016.

Santoso, S., 2006, Menggunakan SPSS untuk Statistik Parametrik, Penerbit Elex Media Komputindo, Kelompok Gramedia, Jakarta.

Septiana, R., 2013, Kepekaan Aspal Modifikasi Polimer dan Aspal Pen 60/70 terhadap Perubahan Kadar Aspal pada Campuran AC-WC dengan Pengujian Marshall dan Permeabilitas, *Master Thesis*, Magister Sistem dan Teknik Transportasi Universitas Gadjah Mada Yogyakarta, tidak dipublikasikan.

Setiawan, A., L.B. Suparma, and A.T. Mulyono, 2016, The Effect of Aggregate Gradation on Workability of Asphalt Concrete, *International Journal of Engineering and Technology*, 8(4):1750-1757, 2016.

Setiawan, A., L.B. Suparma, and A.T. Mulyono, 2017b, Modelling Effect of Aggregate Gradation and Bitumen Content on Marshall Properties of Asphalt Concrete, *International Journal on Advanced Science, Engineering and Information Technology*, 7(2): 359–365, 2017.

Setiawan, A., L.B. Suparma, and A.T. Mulyono, 2017c, Developing the elastic modulus measurement of asphalt concrete using the compressive strength test, *American Institute of Physics (AIP) Conference Proceedings,* 1903(1):050002-1-11, 2017.

Setiawan, A., L.B. Suparma, dan A.T. Mulyono, 2017a, Indeks Gradasi sebagai Parameter untuk Menentukan Gradasi Agregat Beton Aspal, *Jurnal Transportasi*, 17(1):1–10, 2017.

Setyawan, A., A.H.M. Elshawesh, and S. As'ad, 2015, The Structural Properties Assessment of Thin Hot Mixture Asphalt for Pavement Preservation, *Applied Mechanics and Materials*, 776:30–35, 2015.

Shahin, M. Y., 2005, *Pavement Management for Airports, Roads, and Parking Lots*, 2nd Edition, Springer, United States of America.

Shell Bitumen, 1998, *Bitumens and Asphalt Nomograph* (BANDS) 2.0, Shell Pavement Design Software Packages, Shell International Oil Products BV.

SHRP, 1993, *Distress Identification Manual for the Long - Term Pavement Performance Project,* Strategic Highway Research Program (SHRP) P-338, National Research Council, Washington D.C., United States of America.

SNI, 1991, Metode Pengujian Campuran Aspal dengan Alat Marshall, Standar Nasional Indonesia (SNI) 06-2489-1991, Pusat Transportasi, Badan Penelitian dan Pengembangan Pekerjaan Umum, Jakarta.

SNI, 2015, *Cara Uji Ketahanan Campuran Beraspal terhadap Kerusakan akibat Rendaman,* Standar Nasional Indonesia (SNI) 6753:2015, Badan Standardisasi Nasional, Jakarta.

SNI, 2016, *Tata Cara Perhitungan Debit Banjir Rencana,* Standar Nasional Indonesia (SNI) 2415:2016, Badan Standardisasi Nasional, Jakarta.

Solaimanian, M., J. Harvey, M. Tahmoressi, and V. Tandon, 2003, Methods to Predict Moisture Sensitivity of Hot-Mix Asphalt Pavemnts, Moisture Sensitivity of Asphalt Pavements, A National Seminar, February 4-6, 2003, San Diego, California, *Transportation Research Board* of The National Academies, Washington D.C., United States of America.

Starodubsky, S., I. Blechman, and M. Livneh, 1994, Stress-Strain Relationship for Asphalt Concrete in Compression, *Materials and Structures*, 27:474–482, 1994.

Stuart, K.D., 1990, *Moisture Damage in Asphalt Mixtures A State-of-the-Art Report*, Research, Development, and Technology Turner-Fairbank Highway Research Center, Virginia, United States of America.

Stumm, W., 2004, Chemical Processes Regulating the Composition of Lake Waters, in P.E. O'Sullivan, and C.S. Reynolds, editor, *The Lakes Handbook*, Volume 1: Limnology and Limnetic Ecology, pages 79-106, Blackwell Publishing, United States of America.

Subagio, B. S., H. Rahman, S. Hendarto, and F.J. Philips, 2009, Stiffness Modulus of Asphaltic Concrete Wearing Course (AC-WC) Mix Containing Retona Blend 55®: Theoretical and Experimental Analysis, In *Proceedings of the Eastern Asia Society for Transportation Studies,* Eastern Asia Society for Transportation Studies, pages 1–13, Surabaya, Indonesia.

Sudarsono, D. U. I. 1976, *Prinsip-prinsip Beton Aspal dan Pengaspalan dengan Butas*, Cetakan II, Badan Penerbit Pekerjaan Umum Departemen Pekerjaan Umum dan Tenaga Listrik, Jakarta.

Sukarmanto, H., 2016, Kajian Durabilitas Campuran Asphalt Concrete-Wearing Course (Ac-Wc) Terhadap Rendaman Air Banjir, *Master Thesis*, Magister Sistem dan Teknik Transportasi Universitas Gadjah Mada Yogyakarta, tidak dipublikasikan.

Suparma, L.B., 2001, The Use of Recycled Waste Plastics in Bituminous Composites, *PhD Dissertation*, University of Leeds, United Kingdom, Unpublished.

Susantono B., dan A.T. Mulyono, 2008, Jalan Rusak dan Good Governance, *http://www.unisosdem.org/articledetail.php?aid=9840&coid=1&caid=34&gid=3*, [diakses 28 Januari 2016].

Sutanto dan S. Karmawan, 2006, *Pedoman Drainase Jalan Raya*, Penerbit Universitas Indonesia (UI) Press, Jakarta.

Tam, W. O., M. Solaimanian, and T.W. Kennedy, 2000, *Development and Use of Static Creep Test to Evaluate Rut Resistance of Superpave Mixes*, Research Report Number 1250-4, Center for Transportation Research Bureau of Engineering Research, University of Texas at Austin, United States of America.

Tarefder, R.A., dan M. Ahmad, 2015, Evaluating the Relationship between Permeability and Moisture Damage of Asphalt Concrete Pavements, *Journal of Materials in Civil Engineering*, 27(5):04014172-1-10.

Tempo.co., 2013, Kenapa Banjir di Jakarta Barat Lama Surut?, *https://metro.tempo.co/read/news/2013/01/24/083456663/kenapa-banjir-di-jakartabarat-lama-surut*, [diakses 02 Juni 2016, 23:47].

Terrel, R.L., and S. Al-Swailmi, 1994, *Water Sensitivity of Asphalt-Aggregate Mixes: Test Selection*, Strategic Highway Research Program (SHRP) A-403, National Research Council, Washington D.C., United States of America.

Totomiharjo, S., 2004, *Bahan dan Struktur Jalan Raya*, Edisi Ketiga, Biro Penerbit Keluarga Mahasiswa Teknik Sipil (KMTS) Fakultas Teknik Universitas Gadjah Mada, Yogyakarta.

Triatmodjo, B., 2013, *Hidrologi Terapan*, Cetakan Ketiga, Beta Offset, Yogyakarta.

TRL, 1993, *A Guide to the Structural Design of Bitumen-Surfaced Roads in Tropical and Sub-Tropical Countries*, 4th Edition, Overseas Centre, Transport Research Laboratory (TRL), Crowthorne, Berkshire, United Kingdom.

TRL, 2002, *A Guide to the Design of Hot Mix Asphalt in Tropical and Sub-Tropical Countries*, Crowthorne, Berkshire, RG45 6AU, Transport Research Laboratory (TRL) Limited, United Kingdom.

TxDOT, 2005, *Static Creep Test*, Texas Department of Transportation (TxDOT), TxDOT Designation: Tex-231-F, Texas, United States of America.

Urdan, T. C., 2010, *Statistic in Plain English*, 3rd Edition, Routledge, Taylor and Francis Group, New York, United States of America.

Van de Loo, P. J., 1978, The Creep Test: A Key Tool in Asphalt Mix Design and in The Prediction of Pavement Rutting, *Proceedings of Association of Asphalt Paving Technologists*, 47:522–557, 1978.

Wahyudi, M., 2000, Evaluasi Teknik Pemadatan dan Faktor-Faktor yang Berpengaruh terhadap Karakteristik Campuran Aspal Berbatuan Besar, *Prosiding Simposium III Forum Studi Transportasi antar Perguruan Tinggi (FSTPT)*, Universitas Gadjah Mada, Yogyakarta.

Walpole, R. E., R.H. Myers, S.L. Myers, and K. Ye, 2007, *Probability & Statistics for Engineers Scientists*, 8th Edition, Pearson Prentice Hall, Pearson Education Inc., New Jersey, United States of America.

Wibawa, I. M. P., 2016, Pengaruh Rendaman Menerus dan Berkala Air Banjir Terhadap Durabilitas Campuran Asphalt Concrete Wearing Course dengan Bahan Pengikat Aspal Modifikasi Elastomer (AME), *Master Thesis*, Magister Teknik Sarana dan Prasarana dan Bahan Bangunan, Universitas Gadjah Mada, tidak dipublikasikan.

Widayat, J., 2010, *Road Map Perkerasan Lentur*, Puslitbang Jalan dan Jembatan, Bandung.

Witczak, M. W., K. Kaloush, T. Pellinen, M. El-Basyouny, and H.V. Quintus, 2002, *Simple Performance Test for Superpave Mix Design*, Transportation Research Board, National Research Council, National Academy Press, Washington, D.C., United States of America.

Wulandari, I.T., 2015, Pengaruh Penggunaan Bahan Aditif Anti-Stripping Agent Wetfix dan Filler PC pada Aspal Shell Pen 60/70 terhadap Nilai Stabilitas, Durabilitas dan Permeabilitas Campuran AC-WC, *Master Thesis*, Magister Sistem dan Teknik Transportasi Universitas Gadjah Mada Yogyakarta, tidak dipublikasikan.

Yahoo.com, 2014, Kecelakaan Akibat Jalan Rusak Salah Siapa?, Yahoo News Indonesia, *https://id.berita.yahoo.com/kecelakaanakibatjalan-rusak-salah-siapa-015306644.html*, [diakses 1 Desember 2014].

Yan, Y., 2012, Hot Mix Asphalt Concrete Density, Bulk Specific Gravity , and Permeability, *M.Sc Thesis*, West Virginia University, Morgantown, West Virginia, United States of America.

Yoon, H.H., and A.R. Tarrer, 1988, The Effect of Aggregate Properties on Stripping, *Transportation Research Record*, 1171:37–43, 1988.

Zaiontz, C., 2018, Two Factor Anova without Replication, *http://www.real-statistics.com/two-way-anova/two-factor-anova-without-replication/*, [diakses 16 Januari 2018, 17:01].

Zhou, L., F. Chen, Y. Jiang, and Q. Xie, 2009, Influence of Water Saturated State on Moisture Susceptibility of Asphalt Mixture, In *GeoHunan International Conference 2009,* pages 109–114.