



## DAFTAR PUSTAKA

Arora, J.A., 2004, *Introduction to Optimum Design*, Elsevier, Inc.

Atkinson,A.C., Donev, A.N., and Tobias,R.D., 2007, *Optimum Experimental Designs with SAS*, OXFORD University Press. *Journal of Statistical Planning and Inference* , 113, 2895-2606

Antille, G ., Dette,H., and Weinberg, A., 2003, A Note On Optimal Designs In Weighted Polynomial Regression For The Classical Efficiency Functions, *Journal of Statistical Planning and Inference*,113, 285-292.

Boon, J.E.,2007, Generating Exact D-optimal Designs for Polynomial Models, *Spring Sim* ,Vol.2 , 121-126

Box, G.E.P., and Lucas, H.L., 1993, Design of Experiments in Nonlinear Situations, <http://biomet.oxfordjournals.org>.

Box, G.E.P., and Draper, N.R., 1987 *Empirical Model Building and Response Surface*, John Willey and Sons.

Buke, D., Droke, B., and Polzehl, J., 1993, *Model Selection and Variable Transformation in Nonlinear Regression*. Center for Operation Research and Econometrics, Universite Catholique De Louvan Belgium.

Carrillo, M., and Gonzalez, J.M., 2002, A New Approach to Modelling Sigmoidal Curves. *Technological Forcasting and Sosial Change* , 69 , 233-241.

Chang, F.C., and Lin, G.C., 1997, D-optimal Designs for Weighted Polynomial Regression, *Journal of Statistical Planning and Inference* ,62, 317-331.

Chang, F.C., and Lay, C.F., 2002, Optimal Designs for a Growth Curve Models, *Journal of Statistical Planning and Inference* ,104, 427-438.



Chernoff, H., 1953, Locally Optimal Designs for Estimating Parameters, *The Annals of Statistics*, 24, 586 - 602.

Chong, E.K.P., and Zak, S.H., 2008, *An Introduction to Optimization*, Third Edition, John Wiley and Sons, Inc.

Debusho, L.K., and Haines, L.M., 2008, V and D optimal Population Designs for The Simple Linear Regression Model With a Random Intercept Term, *Journal of Statistical Planning and Inference*, 138, 1116-1130.

Dette, H., and Tobias, F., 2000, Constrained D and D1 Optimal Designs for Polynomial Regression, *Working Paper*, Fakultat fur Mathematik, Ruhr-Universitat Bochum, 44780 Bochum, Germany.

Dette, H., Melas, V.B. and Wong, W.K., 2006, Locally D-optimal Designs for Exponential Regression Models, *Statistica Sinica*.16, 789-803.

Dette, H., Lopez, I.M., Rodriguez, I.M.O, and Pepelyshev, A., 2006, Maximin Efficient Design of Experiments for Exponential Regression Models, *Journal of Statistical Planning and Inference* 136, 4397-4418

Dette, H and Pepelyshev, A., 2008, Efficient Experimental Designs for Sigmoidal Growth Models, *Journal of Statistical Planning and Inference*, 138, 2-17.

Dette, H., and Kiss, C., 2012, Optimal Designs for Rational Regression Models, *Working Paper*, Fakultat fur Mathematik, Ruhr-Universitat Bochum, 44780 Bochum, Germany.

Dzyadyk, V.K., and Shevchuk, I.A., 2008, *Theory of Uniform Approximation of Functions by Polynomials*, Walter de Gruyter GmbH and CO. KG, 10785 Berlin, Germany.

Fang, X., and Hedayat, A.S., 2008, Locally D-optimal Designs Based on a Class of Compossed Models Resulted from Blending Emax and One-compartment Models, *The Annals of Statistics* , Vol.36, No.1, 428-444.



Fang, Z., 2002, D-optimal designs for polynomial regression model through origin, *Statistics and Probability Letters*, 57, 343-351.

Fang, Z ., 2003, D-optimal designs for weighted polynomial regression, *Statistics and Probability Letters*.63,205-213,

Gupta, R.D., and Kundu, D.A., 1999, Generalized Exponential Distribution, *Australian and New Zealand Journal of Statistics*, 41, 173-188.

Gupta, R.D., and Kundu, D. A., 2009, New Class of Weigted Exponential Distribution, *Statistics*, 43, 621- 634.

Han,C., and Chaloner, K., 2003, D-and c-optimal Designs for Exponential Regression Models Used in Viral Dynamics and other Applications, *Journal of Statistical Planning and Inference*, 115, 585-601.

Holford, N., 2013, *Pharmacodynamic Principles and the Time Course of Immediate Drug Effect* Department Pharmacology and Clinical Pharmacology, University of Auckland, New Zeland.

Huang Lo, M.N., Chang, F.C., and Wong, W.K., 1995, D-optimal Designs for Polynomial Regression Without an Intercept, *Statis Sinica*,5, 441-458.

Imhof, L., Krafft, O., and Schaefer, M., 2000, D-Optimal Exact Designs For Parameter Estimation In A Quadratic Model , *Sankhya:The Indian Journal of Statistics*.vol 62, series B, Pt.2 pp 266-275.

Jericevic, Z., and Kuster, Z., 2005, Nonlinear Optimization of Parameters in Michaelis Menten Kinetics, *Croatia Chemica Acta CCACCAA*, 78(4), 519-523.

Karlin, S., and Studden, W.JJ., 1966. *Tchebyshev System: With Application in Analysis and Statistics*, John Willey and Sons. Inc.

Kiefer, J., and Wolfowitz, J., 1959, Optimum Design in Regression Problem, *The Annals of Mathematical Statistics*, Vol. 30, 271-294.



Kiefer, J., and Wolfowitz, J., 1960, The Equivalence of Two Extremum Problems, *Can. Jnl. Math*, Vol. 12, 363-366.

Kiefer, J., 1961, Optimum Designs in Regression Problems II, *Annals of Mathematical Statistics* , 32, 298-325.

Kiefer, J., 1974, General Equivalence Theory for Optimum Designs (Approximate Theory), *The Annals, of Statistics*, Vol.2, No.5, 849-879

Khamis, A., Ismail, Z., and Haron, K., 2005, Nonlinear Growth Models for Modeling Oil Palm Yield Growth, *Journal of Mathematics and Statistics*, 1(3),225-233.

Knudsen, J.D., 2001, *General Concepts of Pharmacodynamics*, Department of Clinical Microbiology, Rigshospitalet Copenhagen Denmark.

Li,G., and Majumdar, D., 2008, D-optimal Designs for Logistic Models with Three and Four Parameters, *Journal of Statistical Planning and Inference*,138, 190-1959.

Li, G., 2011, Optimal and Eficient Designs for Gompertz Regression Models, *Ann Inst Stat Math*, DOI 10.1007/s10463-011-03040-y.

Li, G., and Balakrishnan, N., 2011, Optimal Designs for Tumor Regrowth Models, *Journal of Statistical Planning and Inference*,141, 644-654.

Luoma, A., Nummi, T., and Sinha, B.K., 2007, Optimal Designs in Random Coefficient Cubic Regression Models, *Journal of Statistical Planning and Inference*, 137, 3611-3617.

Montgomery, D.C., 2005, *Design and Analysis of Experiments*, Sixth Edition, John Wiley and Sons. Inc.

Morgan, P.H., Mercer, L.P., Flodin, N., 1975, General Model for Nutritional Responses of Higher Organisms, *Proc. Nat. Acad. Sci. USA*, Vol.72,, No. 11, pp.4327-4331, November 1975, Biochemistry.



- Pesti, G.M., and Vedenov, D., 2011. An Economic Comparisson of Several Models Fitted to Nutritional Response Data, *J. ANIM. SCI* 89 , 3344-3349.
- Pukelsheim, F., 1993, *Optimal Design of Experiments*, John Wiley and Sons Inc, New York.
- Rao, G.S.N.K., 2015, Pharmacokinetic One Compartment Oral Administration, *Working Paper* , RAGHU College of Pharmacy, Visakhapatnam.
- Rusdiono, T., Sjuib, F., dan Asyarie, S., 2009, Interaksi Farmakokinetik Kombinasi Obat Paracetamol dan Fenilpropanolamin Hidroklorida Sebagai Komponen Obat Flu.([pustaka.unpad.ac.id/wo-content/uploads/2009/02/interaksi-farmakokinetik.pdf](http://pustaka.unpad.ac.id/wo-content/uploads/2009/02/interaksi-farmakokinetik.pdf))
- Schwabe, R., 2008, Optimal Design for Linear and Nonlinear Models, *A Short Course*, Otto von Guerike University Magdeburg, July, 21-25, 2008.
- Shadrin, A., 2005, Part III-Lent Term 2005, Approximation Theory-Lecture 6. *A Short Course*, <http://www.damtp.cam.uk/user/na/na.html>.
- Searle, S.R., 1982, *Matrix Algebra Useful for Statistics*, Sixth Edition, John Willey and Sons. Inc.
- Sengul, T., and Kiraz, S., 2005, Nonlinear Models for Growth Curves in Large White Tukey, *Turk J Vet Anim Sci*, 29, 331-337.
- Silvey, S.D., 1980, *Optimum Design*, Chapman and Hall, London.
- Simanungkalit, R.E., 2011, Peningkatan Mutu dan Hasil Tanaman Tomat (*Lycopersicum esculentum*Mill.) dengan Pemberian Hormon GA, *skripsi* Universitas Sumatera Utara, Medan.
- Tariq, M.M., et al., 2013, Comparisson of Nonlinear Function to Describe the Growth in Mengali Sheep Breed of Balochistan, *Pakistan J. Zool.* 45(3),661-665.



Utomo, P. M., Suhendang, E., Syafii, W., and Simangunsong, B.C.H., 2012, Model Produksi Daun Pada Hutan Tanaman Kayu Putih (Melaleu cajaputi subsp. cajaputi powell) Sistem Pemanenan Pangkas Tunas ,*Jurnal Penelitian Hutan Taman*, **9(4)**, 195 - 208.

Vrahnakis, M.S.,et al., 2008. Modelling Growth responses Legumes to Water Shortage, *Option Mediterraneenes series A* No. 79 , 275-278.

Wald, A., 1943, On The Efficient Design of Statistical Investigations, *Annals of Mathematical Statistics*, 14, 134-140.

Wagner, J.G., 1973, Modern View of Pharmacokinetics, *Journal of Pharmacokinetics and Biopharmaceutics*, Vol. 1, No.5, 1973

White, L., 1973, An Extension of the general equivalence theorem to nonlinear models,*Biometrika*, **60**, 345-348.

Widiharih,T., Haryatmi,S., dan Gunardi., 2012, Rancangan D-Optimal Untuk Model Regresi Eksponensial Dengan Mean Terboboti, *Prosiding KNM XVI UNPAD*,3-6 Juli 2012.

Widiharih, T., Haryatmi,S., dan Gunardi., 2013a, D-optimal Design Untuk Regresi Polinomial Terboboti, *IndoMS Journal on Statistics*, Vol.1, No.1: 29-38.

Widiharih, T., Haryatmi,S., and Gunardi., 2013b, D-optimal designs for weight-ed exponential and generalized exponential models, *Applied Mathematical Sciences*,Vol.7 No.22, 1067-1079.

Widiharih,T., Haryatmi,S., dan Gunardi., 2013c, Pendekatan Numeris Rancangan D-Optimal Untuk Model Regresi Eksponensial Tergeneral Tiga Parameter, *Prosiding Seminar Nasional Statistika, Jurusan Statistika UNDIP*,14 September 2013.

Widiharih,T., Haryatmi,S., dan Gunardi., 2014, Rancangan D-optimal Untuk Model Eksponensial Tergeneral, *Media Statistika* Vol.7 No.2, 71-76.



Widiharih,T., Haryatmi,S., and Gunardi., 2015, D-optimal designs for Morgan Mercer Flodin (MMF) Models without Intercept *International Journal of Applied Mathematics and Statistics*, Vol.53(5):163-171.

Widiharih,T., Haryatmi,S., and Gunardi., 2016a, D-optimal designs for Morgan Mercer Flodin (MMF) Models With Three Parameters *Proceeding AIP*, 1707, 080015 : DOI 10.1063/1.4940872.

Widiharih,T., Haryatmi,S., and Gunardi., 2016b, D-optmal Designs for Modified Exponential Models With Three Parameters, *Journal Model Assisted Statistics and Application*, 11, 153-169, DOI 10.3233/MAS 150360, IOS Press.