

DAFTAR PUSTAKA

- Adao, F.J.S.F., Ritter, O., & Spangenberg, E. (2015). *The Electrical Conductivity of the Posidonia Black Shales : From Magnetotelluric Exploration to Rock Samples*. Doctoral dissertation, Freie Universität Berlin.
- Agarwal, A.K. & Weaver, J.T. (1999). *Magnetic distortion of the magnetotelluric tensor: a numerical study*. Earth Planets Space, submitted.
- Allen, G.P., & Chambers, J.L.C. (1998). *Regional Geology and Stratigraphy of the Kutei Basin, Sedimentation in the Modern and Miocene Mahakam Delta*. Insoneisan Petroleum Association.
- Aminzadeh, F., Connolly, D., & De Groot, P. (1999). *Interpretation of gas chimney volumes*. SEG Technical Program Expanded Abstracts. <https://doi.org/10.1190/1.1817277>
- Arisbaya, I., Aldinofrizal, A., Sudrajat, Y., Gaffar, E. Z., & Hardja, A. (2018). Model sistem panas bumi lapangan Karaha - Talaga Bodas berdasarkan inversi 2D data Magnetotellurik. *Jurnal RISSET Geologi dan Pertambangan*, 28(2), 221-237. <https://doi.org/10.14203/risetgeotam2018.v28.989>
- Bahr, K. (1988). *Interpretation of the magnetotelluric impedance tensor: regional induction and local telluric distortion*. J. Geophys., 62: 119-127.
- Bahr, K. (1991). *Geological noise in magnetotelluric data: a classification of distortion types*. Phys. Earth planet. Interiors 66: 24-38.
- Berdichevsky, M.N.; & Dmitriev, V.I. (1976). *Basic principles of interpretation of magnetotelluric curves*. in Geoelectric and Geothermal Studies, pp. 165-221, ed. A. A. A. A. KAPG Geophysical Monograph, Akademiai Kaido, Budapest.
- Berdichevsky, M.N.; & V.I. Dmitriev. (2008). *Models and Methods of Magnetotellurics*. Springer, Berlin, Germany, p. 31-33.
- Chambers, J. L. C., & Daley, T. E. (1995). *A tectonic model for the onshore Kutai Basin, East Kalimantan, based on an integrated geological and geophysical*

- interpretation.* Proceedings of the Indonesian Petroleum Association, 24th Annual Convention.
- Chave, A. D., & Jones, A. G. (2012). *The Magnetotelluric Method: Theory and Practice*. Cambridge University Press.
- Constable, S. C., Parker, R. L., & Constable, C. G. (1987). *Occam's inversion A practical algorithm for generating smooth models from electromagnetic sounding data*. Geophysics, 52(3), 289-300.
- Cox, C.S., Filloux, J.H., Gough, D.I., Larsen, J.C., Poehls, K.A., von Herzen, R.P. & Winter, R. (1980). *Atlantic lithosphere sounding*. J. Geomag. Geoelectr., 32: Suppl. I, 13-32
- Darmawan, R.; & Sumardji. (2015). *Penerapan Metode Seismik Reflesi 2D untuk Mendeteksi Lapisan Batubara di Lapangan "X" Cekungan Barito Kalimantan Selatan*. Jurnal Fisika Indonesia Vol. 19 No. 57 p.48-50
- Eggers, D.E., (1982). *An eigenstate formulation of the magnetotelluric impedance tensor*. Geophysics, 47: 1204-1214.
- Fischer, G. & Masero, W. (1994). *Rotational properties of the magnetotelluric impedance tensor: the example of the Araguainha impact crater*. Brazil, Geophys. J. Int., 119: 548-560.
- Grandis, H. (1998). *An Alternative Algorithm for One-Dimensional Magnetotelluric Response Calculation*. Bandung: ITB.
- Groom, R.W. & Bailey, R.C. (1989). *Decomposition of the magnetotelluric impedance tensor in the presence of local three-dimensional galvanic distortion*. J. geophys. Res., 94: 1913-1925.
- Hamdani, A., Noeradi, D., & Iskandar, Y. (2019). *Potensi gas serpih Formasi Pulobalang, Cekungan Kutai, Kalimantan Timur*. Bulletin of Geology, 3(2), 371-380. <https://doi.org/10.5614/bull.geol.2019.3.2.5>
- Hersir, G.P., Arnason, K. & Vilhjalmsson, A.M. (2013). *3D inversion of magnetotelluric (MT) resistivity data from Krysuvik high temperature geothermal area in SW Iceland*. in Proceedings of the 38th Workshop on Geothermal Reservoir Engineering, Stanford Univ., Stanford, 14 pp.

- Ingham, M.R. (1988). *The use of invariant impedances in magnetotelluric interpretation*. Geophys. J. R. astr. Soc., 92: 165-169.
- Jones, A. G., & Ranganayaki, R. P. (1983). *On the equivalence of the Niblett and Bostick transformations in the magnetotelluric method*. Journal of Geophysics, 53(1), 72-73
- Junursyah, G. M. L., Fauzhy, M. A., Hidayat, H., & Harja, A. (2023). *Reduksi Efek Dimensionalitas 3D Berdasarkan Analisis Koherensi Pada Data Magnetotellurik Di Daerah Bandung Bagian Timur*. Pusat Survei Geologi. Retrieved from <https://www.researchgate.net/publication/374082859>
- Keller, G. V. (1989). *Electrical Properties of Rocks and Minerals*. Handbook of Physical Constants. American Geophysical Union.
- Khuzhnyak, M. (2014). *Geoelectrical Strike and Its Application in Magnetotellurics*. Reykjavik : Faculty of Earth Science, University of Iceland.
- Larsen, J.C. (1977). *Removal of local surface conductivity effects from low frequency mantle response curves*. Acta Geodaet., Geophys. et Montanist. Acad. Sci. Hung., 12: 183-186.
- Lezaeta, P. (2002). *The Confidence Limit of the Magnetotelluric Phase Sensitive Skew*. Earth Planets and Space, 54: 45-457.
- Lilley, F.E.M. (1976). *Diagrams for magnetotelluric data*. Geophysics, 41, 766-770.
- Lilley, F.E.M. (1993a). *Mohr circles in magnetotelluric interpretation (i) simple static shift; (ii) Bahr's analysis*. J. Geomag. Geoelectr., 45: 833-839.
- Lilley, F.E.M., (1993b). *Three-dimensionality of the BC87 magnetotelluric data set using Mohr circles*. J. Geomag. Geoelectr., 45: 1107-1113.
- Lilley, F.E.M. (1993c). *Magnetotelluric analysis using Mohr circles*. Geophysics, 58: 1498-1506.
- Lilley, F.E.M. (1998a). *Magnetotelluric tensor decomposition: 1. Theory for a basic procedure*. Geophysics, 63: 1885-1897.

- Lilley, F.E.M. (1998b). *Magnetotelluric tensor decomposition: 2. Examples of a basic procedure*. Geophysics, 63: 1898-1907.
- Lowrie, W. (2007). *Fundamentals of Geophysics* (2nd ed.). Cambridge: Cambridge University Press.
- Marti, A., Queralt, P., Ledo, J. (2009). *WALDIM : A code for the dimensionality analysis of magnetotelluric data using the rotational invariants of the magnetotelluric tensor*. Journal Computers & Geoscience, 35: 2295-2303.
- Maurya, V.P., dkk. (2016). *An Overview of Geo-electric Dimensionality of Parana Basin*. SBGf – Sociedade Brasileira de Geofisica.
- Menke, W. (2012). *Geophysical Data Analysis: Discrete Inverse Theory*. Academic Press.
- Miensopust, M.P. (2010). *A 2D Case Study and a 3D Approach to Simultaneously Invert for Resistivity Structure and Distortion Parameters*. Irlandia : Department of Earth and Ocean Sciences National University Ireland Galway.
- Milsom, J. (2003). *Field Geophysics*. England : John Wiley & Sons Ltd.
- Montgomery, D. C., Jennings, C. L., & Kulahci, M. (2008). *Introduction to time series analysis and forecasting*. Wiley.
- Mora, S., Gardini, M., Kusumanegara, Y. and Wiweko, A., (2001). *Modern, Ancient Deltaic Deposits and Petroleum System of Mahakam Area*. Total E&P Indonesia dalam Indonesian Petroleum Association 2000 Field Trip Guide Book
- Moss, SJ, Chambers JLC. (2000). *Depositional Modeling and Facies Architecture of Rift and Inversion Episodes in the Kutei Basin, Kalimantan, Indonesia*. proceedings of the annual convention-indonesian petroleum association. 1:467–486.
- Nabighian, M. N., & Hohmann, G. W. (Eds.). (1991). *Electromagnetic Methods in Applied Geophysics, Volume 2: Applications (Part A and Part B)*. Society of Exploration Geophysicists.

- Newman, G. A., & Alumbaugh, D. L. (2000). *Three-dimensional magnetotelluric inversion using nonlinear conjugate gradients*. Geophysical Journal International, 140(2), 410–424. <https://doi.org/10.1046/j.1365-246x.2000.01094.x>
- Pace, P., Scisciani, V., Calamita, F., & Paltrinieri, W. (2012). *Positive flower structures as reactivated normal faults along oblique thrust ramps: Examples from the Apulian structures, Central-Southern Apennines*. Rendiconti Online della Società Geologica Italiana, 21, 47-49. <https://doi.org/10.13140/RG.2.2.23406.59203>
- Park, S.W. & Livelybrooks, D.W. (1989). *Quantitative interpretation of rotationally invariant parameters in magnetotellurics*. Geophysics, 54: 1483-1490.
- Pranata, E., dkk. (2017). *Magnetotelluric Data Analysis Using Swift Skew, Bahr Skew, Polar Diagram, and Phase Tensor: a Case Study in Yellowstone*. US. Pakistan Academy of Sciences.
- Pratiwi, I., D., dkk. (2018). *Data Magnetotelurik Menggunakan Analisis Time Series dan Local Reference : Studi Kasus Lapangan Shale Gas Kutai*.
- Qibin, D, dkk. (2011). *Application of 2D magnetotelluric methods in a geological complex area, Xinjiang, China*. Journal of Applied Geophysics 75: 19-30.
- Ranganayaki, R.P. (1984). *An interpretive analysis of magnetotelluric data*. Geophysics, 49: 1730-1748.
- Renaldo, Z. (2014). *Geologi dan karakteristik reservoir serta perhitungan cadangan lapisan "Z-12" Formasi Balikpapan Lapangan "Kobes"*. Skripsi. Universitas Pembangunan Nasional "Veteran" Yogyakarta. Retrieved from <https://eprints.upnyk.ac.id/1670/>
- Rodi, W., & Mackie, R.L. (2001). *Nonlinear Conjugate Gradients Algorithm for 2-D Magnetotelluric Inversion*. Geophysics, 66: 174-187
- Santoso, D. (2002). *Pengantar Teknik Geofisika*. Penerbit ITB, Bandung

- Satyana, A.H., dkk. (1999). *Tectonic Control on the hydrocarbon habitats of the Barito, Kutei, and Tarakan Basins, Eastern Kalimantan, Indonesia: major dissimilarities in adjoining basins*. Journal of Asian Earth Sciences.
- Schmoldt, J.P. (2011). *Multidimensional Isotropic and Anisotropic Investigation of the Tajo Basin Subsurface A Novel Anisotropic Inversion Approach for Subsurface Cases with Oblique Geoelectric Strike Directions*. Faculty of Science, Department of Earth and Ocean Science, National University of Ireland, Galway, Ireland.
- Schon, J.H. (2004). *Physical Properties of Rocks : Fundamentals and Principles of Petrophysics*. Elsevier, 583 pp.
- Simpson, F., & Bahr, K. (2005). *Practical Magnetotellurics*. Cambridge University Press.
- Smith, J.T. (1995). *Understanding telluric distortion matrices*. Geophys. J. Int., 122: 219-226.
- Sukmono, S. (1999). *Atribut Seismik untuk Karakterisasi Reservoar*. Departemen Geofisika ITB, Bandung.
- Supriatna, S., dkk,. (1995). *Peta Geologi Lembar Samarinda, Kalimantan*. Bandung : Pusat Penelitian dan Pengembangan Geologi.
- Swift, C.M. (1967). *Magnetotelluric investigation of an electrical conductivity anomaly in the southwestern United States*. PhD thesis, Department of Geology and Geophysics, MIT, Cambridge, MA (reprinted in Magnetotelluric Methods, pp. 156-166, ed. Vozof, K., Geophys. Reprint Ser. No. 5: 1988, SEG, Tulsa, OK).
- Szarka, L. & Menvielle, M. (1997). *Analysis of rotational invariants of the magnetotelluric impedance tensor*. Geophys. J. Int., 129: 133-142.
- Tappi, S., & Cherdasa, J.R. (2022). *Mechanical Model for Wellbore Stability in Z Field, Y Well Sanga Sanga Working Area, Kutai Basin*. Journal of Geoscience, Engineering, Environment, and Technology Vol. 08 No. 02-2 2023 Special Edition (72 – 84)

Telford, W. M., Geldart, L. P., & Sheriff, R. E. (1990). *Applied Geophysics*. Cambridge University Press.

Unsworth, M.J. (2008). *Lithospheric structure of the Arabia-Eurasia collision zone in Eastern Anatolia from Magnetotelluric Exploration evidence for widespread weakening by fluids*. Geology, 36(8).

Vozoff, K. (1972). *The Magnetotelluric Methode in the Exploration of Sedimentary Basins*. Geophysics 3.

Walpole, R. E., Myers, R. H., Myers, S. L., & Ye, K. E. (2011). Probability and statistics for engineers and scientists (9th ed.). Pearson.

Wang, Y., Li, W., Wang, X., Wang, Z., Ma, W., Zhu, Y., Sun, M., Liu, B., Cheng, L., & Fu, X. (2023). *Nanopore structure and multifractal characteristics of continental shale oil reservoir: A case study from Ziliujing shales in the Sichuan Basin*. Journal of Marine Science and Engineering, 11(10), 1989. <https://doi.org/10.3390/jmse11101989>

Weaver, J.T. (1994). *Mathematical Methods for Geo-electromagnetic Induction*. Research Studies Press, Baldock.

Weaver, J.T., Agarwal, A.K. & Pu, X.H. (1999). *Three dimensional finite-diference modelling of the magnetic field in geoelectromagnetic induction, in Three Dimensional Electromagnetics*. pp. 426-443, eds Oristaglio, M.J. & Spiess, B.R., Geophysical Developments Series, Vol. 7, SEG, Tulsa, OK.

Weaver, J.T., Agarwal, A.K., Lilley, F., E., M. (2000). *Characterization of the magnetotelluric tensor in terms of its invariants*. Gephys J, Int 141: 321-336.

Wibowo, Y. E., & Windarta, J. (2022). *Kondisi Gas Bumi Indonesia dan Energi Alternatif Pengganti Gas Bumi*. Jurnal Energi Baru & Terbarukan, 3(1), 1-14. <https://doi.org/10.14710/jebt.2022.10042>

Word, D.R., Smith, H.W. & Bostick, F.X. (1971). *Crustal investigations by the magnetotelluric tensor impedance method, in The Structure of Physical Properties of the Earth's Crust*. pp. 397-416, AGU Monograph No. 14 (reprinted in Magnetotelluric Methods, pp. 626-648, ed. Vozoff, K., Geophys. Reprint Ser. No. 5, 1988, SEG, Tulsa, OK).

- Zajuli, M. H. H., & Wahyudiono, J. (2018). *Rock-Eval Pyrolysis of the Oligocene Fine-grained Sedimentary Rocks from the Pamaluan Formation, Gunung Bayan Area, West Kutai Basin, East Kalimantan: Implication for Hydrocarbon Source Rock Potential*. Jurnal Geologi dan Sumberdaya Mineral, 19(2), 73-82. <https://doi.org/10.33332/jgsm.geologi.19.2.73-82>
- Zhang, P., Roberts, R.G. & Pederson, L.B. (1987). *Magnetotelluric strike rules*. Geophysics, 52: 267-278.