



## DAFTAR PUSTAKA

- Ahmed, S.N. 2015. Position-sensitive detection and imaging. *Physics and Engineering of Radiation Detection*. Elsevier, hlm.435–475.
- Amirkhanov, A., Heinzl, C., Kuhn, C., Kastner, J. & Gröller, M.E. 2013. Fuzzy CT Metrology: Dimensional Measurements on Uncertain Data. *Proceedings of the 29th Spring Conference on Computer Graphics, SCCG '13*. New York, NY, USA: Association for Computing Machinery, hlm.81–90.
- Anonim, 2002. *ISO 15708-1:2002 - Non-destructive testing — Radiation methods — Computed tomography — Part 1: Principles*. iTeh Standards.
- Applbaum, N. & Applbaum, Y.H. 2005. The Use of Medical Computed Tomography (CT) Imaging in the Study of Ceramic and Clay Archaeological Artifacts from the Ancient Near East. M. Uda, G. Demortier & I. Nakai, ed., *X-rays for Archaeology*. Berlin/Heidelberg: Springer-Verlag, hlm.231–245.
- Badea, C.T. 2021. Chapter 4 - Principles of Micro X-ray Computed Tomography. B.D. Ross & S.S. Gambhir, ed., *Molecular Imaging (Second Edition)*. Academic Press, hlm.47–64.
- Behling, R. 2021. *Modern diagnostic X-ray sources: technology, manufacturing, reliability*. Second edition ed. Boca Raton: CRC Press.
- Boas, F.E. & Fleischmann, D. 2012. CT artifacts: causes and reduction techniques. *Imaging in Medicine*, 4(2): 229–240.
- Bossi, R.H. & Nelson, J.M. 1994. *X-RAY COMPUTED TOMOGRAPHY STANDARDS*. Seattle, WA 98124-2499: Boeing Defense & Space Group.
- Brisard, S., Serdar, M. & Monteiro, P.J.M. 2020. Multiscale X-ray tomography of cementitious materials: A review. *Cement and Concrete Research*, 128: 105824
- Bushberg, J.T. ed., 2012. *The essential physics of medical imaging*. 3. ed ed. Philadelphia: Wolters Kluwer, Lippincott Williams & Wilkins.
- Buzug, T. & Mihailidis, D. 2009. Computed Tomography From Photon Statistics to Modern Cone-Beam CT. *Medical Physics*, 36: 3858.
- Cho, I.-S., Yoo, S.-M., Lim, C.-H., Hwang, J.-H., Yang, J.-S. & Kim, K. 2011. Designing Phantoms for Industrial Computed Tomography. *2011 First ACIS International Symposium on Software and Network Engineering*. 2011 First ACIS International Symposium on Software and Network Engineering. hlm.7–11..



- Cierniak, R. 2011. *X-Ray Computed Tomography in Biomedical Engineering*. London: Springer London. Tersedia di <http://link.springer.com/10.1007/978-0-85729-027-4> [Accessed 30 November 2023].
- De Chiffre, L., Carmignato, S., Kruth, J.-P., Schmitt, R. & Weckenmann, A. 2014. Industrial applications of computed tomography. *CIRP Annals*, 63(2): 655–677.
- Du Plessis, A., Le Roux, S.G. & Guelpa, A. 2016. Comparison of medical and industrial X-ray computed tomography for non-destructive testing. *Case Studies in Nondestructive Testing and Evaluation*, 6: 17–25.
- Fauziyah, S. 2019. *PENGEMBANGAN PHANTOM DAN PENGUJIANNYA PADA SISTEM RADIOGRAFI DIGITAL*. Yogyakarta: Gadjah Mada University.
- Gonzalez, R.C. & Woods, R.E. 2018. *Digital image processing*. Fourth edition ed. New York, NY: Pearson.
- Gulliksrud, K., Stokke, C. & Trægde Martinsen, A.C. 2014. How to measure CT image quality: Variations in CT-numbers, uniformity and low contrast resolution for a CT quality assurance phantom. *Physica Medica*, 30(4): 521–526.
- Hadhoud, M.M., Abd El-Samie, F. & El-Khamy, S. 2004. *New trends in high resolution image processing*. hlm.23.
- Hendee, W.R. & Ritenour, E.R. 2002. *Medical Imaging Physics*. 1 ed. Wiley.
- Hiller, J., Genta, G., Barbato, G., De Chiffre, L. & Levi, R. 2014. Measurement uncertainty evaluation in dimensional X-ray computed tomography using the bootstrap method. *International Journal of Precision Engineering and Manufacturing*, 15(4): 617–622.
- Horvatic Novak, A., Runje, B., Keran, Z. & Orošnjak, M. 2020. Image Artefacts in Industrial Computed Tomography. *Tehnički glasnik*, 14: 434–439.
- Hsieh, J. 2009. *Computed tomography: principles, design, artifacts, and recent advances*. 2nd ed ed. Hoboken, N.J.: Bellingham, Wash: Wiley Interscience ; SPIE Press.
- Hubbell, J.H. 1999. Review of photon interaction cross section data in the medical and biological context. *Physics in Medicine & Biology*, 44(1): R1.
- Irdawati, Y., Sutanto, H., Anam, C., Fujibuchi, T., Zahroh, F. & Dougherty, G. 2019. Development of a novel artifact-free eye shield based on silicon rubber-lead composition in the CT examination of the head. *Journal of Radiological Protection*, 39(4): 991–1005.



- Jaju, P.P., Jain, M., Singh, A. & Gupta, A. 2013. Artefacts in cone beam CT. *Open Journal of Stomatology*, 3(5): 292–297.
- Kelsey, C.A. 1985. *Essentials of Radiology Physics*. St. Louis, Missouri 63132, U.S.A.: Warren H. Green.
- Li, X., Dentinger, A., Brault, M., Ross, W.R., Osterlitz, M., Fu, L., Wu, M., Price, J.S., De Man, B., Bueno, C. & Fitzgerald, P. 2020. Toward Comprehensive Industrial Computed Tomography Image Quality Assessment: I. Phantom Design. *Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems*, 3(3): 031101.
- Lifton, J.J., Malcolm, A.A. & McBride, J.W. 2015. A simulation-based study on the influence of beam hardening in X-ray computed tomography for dimensional metrology. *Journal of X-Ray Science and Technology*, 23(1): 65–82.
- Louk, A., Suparta, G.B. & Hidayah, N. 2014. Image Processing for Multiple Micro-Radiography Images. *Advanced Materials Research*, 896.
- Louk, A.C. 2015. 3D image reconstruction on x-ray micro-computed tomography. C. Quan, K. Qian, A. Asundi & F.S. Chau, ed. International Conference on Experimental Mechanics 2014. Singapore, Singapore, hlm.93020Y.
- Louk, A.C. & Suparta, G.B. 2014. Pengukuran Kualitas Sistem Pencitraan Radiografi Digital Sinar-X. *Bimipa*, 24(2): 149–166.
- Lubis, L.E., Hariyati, I., Ryangga, D., Mu'minah, I. a. S., Mart, T. & Soejoko, D.S. 2020. Construction and Evaluation of a Multipurpose Performance Check Phantom for Computed Tomography. *Atom Indonesia*, 46(2): 69–75.
- Maier, A., Steidl, S., Christlein, V. & Hornegger, J. ed., 2018. *Medical Imaging Systems: An Introductory Guide*. Lecture Notes in Computer Science. Cham: Springer International Publishing.
- Mansour, Z., Mokhtar, A., Sarhan, A., Ahmed, M.T. & El-Diasty, T. 2016. Quality control of CT image using American College of Radiology (ACR) phantom. *The Egyptian Journal of Radiology and Nuclear Medicine*, 47(4): 1665–1671.
- Mar'ie, K., Lestariningsih, I., Nurlely & Soejoko, D.S. 2020. Phantom design for analysis of CT image quality from Single-source and Dual-source CT scan. *Journal of Physics: Conference Series*, 1568(1): 012019.
- Osipov, S.P., Chakhlov, S.V., Zhvyrblia, V.Y., Sednev, D.A., Osipov, O.S. & Usachev, E.Y. 2023. The Nature of Metal Artifacts in X-ray Computed Tomography and Their Reduction by Optimization of Tomography Systems Parameters. *Applied Sciences*, 13(4): 2666.



- Park, H., Lee, S.M., Kim, H. & Seo, J. 2017. Machine-learning-based nonlinear decomposition of CT images for metal artifact reduction.
- Petrella, E., Piciucchi, S., Feletti, F., Barone, D., Piraccini, A., Minghetti, C., Gruppioni, G., Poletti, V., Bertocco, M. & Traversari, M. 2016. CT Scan of Thirteen Natural Mummies Dating Back to the XVI-XVIII Centuries: An Emerging Tool to Investigate Living Conditions and Diseases in History. *PLOS ONE*, 11(6): e0154349.
- Prince, J.L. & Links, J.M. 2015. *Medical imaging signals and systems*. 2 ed. Boston: Pearson.
- Radon, J. 1986. On the determination of functions from their integral values along certain manifolds. *IEEE Transactions on Medical Imaging*, 5(4): 170–176.
- Rifai, R. 2023. *PENERAPAN TEKNIK PEMINDAIAN CEPAT PADA SISTEM TOMOGRAFI KOMPUTER DAN METODE REKONSTRUKSINYA*. Yogyakarta: Gadjah Mada University.
- Samei, E., Bakalyar, D., Boedeker, K.L., Brady, S., Fan, J., Leng, S., Myers, K.J., Popescu, L.M., Ramirez Giraldo, J.C., Ranallo, F., Solomon, J., Vaishnav, J. & Wang, J. 2019a. Performance evaluation of computed tomography systems: Summary of AAPM Task Group 233. *Medical Physics*, 46(11).
- Samei, E., Bakalyar, D., Boedeker, K.L., Brady, S., Fan, J., Leng, S., Myers, K.J., Popescu, L.M., Ramirez Giraldo, J.C., Ranallo, F., Solomon, J., Vaishnav, J. & Wang, J. 2019b. Performance evaluation of computed tomography systems: Summary of AAPM Task Group 233. *Medical Physics*, 46(11).
- Septiano, A.F., Sutanto, H., & Susilo 2020. Fabrication and analysis of radiation dose for elastic lead polyester composites as a glass coating. *Journal of Physics: Conference Series*, 1567(4): 042089.
- Septiano, A.F., Sutanto, H., & Susilo 2021. Synthesis and characterization of resin lead acetate composites and ability test of X-ray protection. *Journal of Physics: Conference Series*, 1918(2): 022003.
- Silva, W.C.D.D., Lopes, R.T. & Duarte, M.A.V. 2020. Phantom development applied to industrial tomography in composite material pipeline. *e-Journal of Nondestructive Testing*, 25(2).
- Smith, S.W. 1999. *The Scientist and Engineer's Guide to Digital Signal Processing*. San Diego, CA 92150-2407: California Technical Publishing.
- Suparta, G.B., Cerly, M.F. & Louk, A.C. 2019. South Sea Pearl Shell Quality Inspection Using X-Ray Digital Radiography. *KnE Life Sciences*, 166–173.



- Suparta, G.B. & Handayani, N. 2009. Application of Computed Tomography to Quality Inspection of Brass Alloy. *Proceedings of SPIE - The International Society for Optical Engineering*.
- Susanto, A.T., Prajitno, P. & Kurnianto, K. 2021. Development of low-cost industrial x-ray computed tomography system based on digital fluoroscopy. *Journal of Physics: Conference Series*, 1825(1): 012033.
- Villarraga-Gómez, H., Herazo, E.L. & Smith, S.T. 2019. X-ray computed tomography: from medical imaging to dimensional metrology. *Precision Engineering*, 60: 544–569.
- Wang, M. & Wang, M. 2015. *Industrial Tomography: Systems and Applications*. Woodhead Publishing.
- Wiguna, G.A., Alshweikh, A.M., Suparta, G.B., Louk, A.C. & Kusminarto, K. 2018. PENENTUAN DENSITAS AKRILIK DAN PLASTIK BERDASARKAN CITRA RADIOGRAFI DIGITAL. *Jurnal Fisika dan Aplikasinya*, 15(1): 12.