

## DAFTAR PUSTAKA

- [1] D. Xu, J. Du, and C. Tian, "Vibration Characteristics and Power Flow Analyses of a Ship Propulsion Shafting System with General Support and Thrust Loading," *Shock Vib.*, vol. 2020, 2020, doi: 10.1155/2020/3761590.
- [2] G. Seggewiss and M. Fanslow, "Electro-mechanical considerations for long term drive life in fan, mill, and conveyor applications," *IEEE Cem. Ind. Tech. Conf.*, 2010, doi: 10.1109/CITCON.2010.5470068.
- [3] M. I. Ismail and N. S. Ferguson, "Passive Shock Isolation Utilising Dry Friction," *Shock Vib.*, vol. 2017, 2017, doi: 10.1155/2017/7313809.
- [4] W. Kuhn and B. Dressler, "Experimental investigations on the dynamic behaviour of hot-wire probes.," vol. 2015, 1980.
- [5] P. S. Balaji, L. Moussa, M. E. Rahman, and L. T. Vuia, "Experimental investigation on the hysteresis behavior of the wire rope isolators," *J. Mech. Sci. Technol.*, vol. 29, no. 4, pp. 1527–1536, 2015, doi: 10.1007/s12206-015-0325-5.
- [6] A. A. Mulla and D. R. Unaune, "Active Suspensions Future Trend of Automotive Suspensions," *Int. Conf. Emerg. Trends Technol. its Appl.*, no. July, 2013.
- [7] J. E. Bobrow, F. Jabbari, and K. Thai, "A new approach to shock isolation and vibration suppression using a resettable actuator," *J. Dyn. Syst. Meas. Control. Trans. ASME*, vol. 122, no. 3, pp. 570–573, 2000, doi: 10.1115/1.1286629.
- [8] J. Kiefer, M. Ward, and M. Costello, "Rotorcraft Hard Landing Mitigation Using Robotic Landing Gear," *J. Dyn. Syst. Meas. Control. Trans. ASME*, vol. 138, no. 3, pp. 1–11, 2016, doi: 10.1115/1.4032286.
- [9] M. Alhammadi, M. Alavi, A. Alameri, and S. S. Bin Dol, "Aerodynamic Study and Design of Fixed Wing and Multi-copter Combination," *Eng. World*, vol. 4, pp. 91–95, 2022, doi: 10.37394/232025.2022.4.12.
- [10] L. A. N. Wibawa, "Effect of Fillet Radius of UAV Main Landing Gear on Static Stress and Fatigue Life using Finite Element Method," *J. Phys. Conf.*

- Ser.*, 2021, doi: 10.1088/1742-6596/1811/1/012082.
- [11] C. Lancea *et al.*, “Simulation, Fabrication and Testing of UAV Composite Landing Gear,” *Appl. Sci.*, vol. 12, no. 17, 2022, doi: 10.3390/app12178598.
- [12] F. A. Wandono, “Optimization of the Main Landing Gear Structure of LSU-02NGLD,” *Comput. Exp. Res. Mater. Renew. Energy*, vol. 4, no. 1, p. 30, 2021, doi: 10.19184/cerimre.v4i1.24965.
- [13] A. Jinadu, O. A. Olayemi, Q. Tijani, and A. Salaudeen, “Characterization of Boeing 777 Nose Landing Gear to Better Withstand Rough Landing,” *Int. J. Eng. Res. Africa*, vol. 66, pp. 75–90, 2023, doi: 10.4028/p-Fg9nj7.
- [14] B. L. León, J. J. Rimoli, and C. V. Di Leo, “Rotorcraft Dynamic Platform Landings Using Robotic Landing Gear,” *J. Dyn. Syst. Meas. Control. Trans. ASME*, vol. 143, no. 11, pp. 1–19, 2021, doi: 10.1115/1.4051751.
- [15] K. Guo, P. Tang, H. Wang, D. Lin, and X. Cui, “Autonomous Landing of a Quadrotor on a Moving Platform via Model Predictive Control,” *Aerospace*, vol. 9, no. 1, pp. 1–21, 2022, doi: 10.3390/aerospace9010034.
- [16] Z. Wang, S. Mao, Z. Gong, C. Zhang, and J. He, “Energy efficiency enhanced landing strategy for manned evtols using ll adaptive control,” *Symmetry (Basel)*, vol. 13, no. 11, 2021, doi: 10.3390/sym13112125.
- [17] T. Baca *et al.*, “Autonomous landing on a moving vehicle with an unmanned aerial vehicle,” *J. F. Robot.*, vol. 36, no. 5, pp. 874–891, 2019, doi: 10.1002/rob.21858.
- [18] Darmawan, L. Son, M. Bur, and Nurmansyah, “Experimental Studies of Application Passive Momentum Exchange Impact Damper (PMEID) on UAV’S Landing Gear,” *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 1041, no. 1, p. 012065, 2021, doi: 10.1088/1757-899x/1041/1/012065.
- [19] L. Son, S. Hara, H. Matsuhisa, H. Utsuno, and K. Yamada, “Proposal of active momentum exchange impact damper and its application to floor shock vibration control,” *Proc. SICE Annu. Conf.*, pp. 806–811, 2008, doi: 10.1109/SICE.2008.4654766.
- [20] L. Son, M. Bur, M. Rusli, H. Matsuhisa, K. Yamada, and H. Utsuno, “Fundamental study of momentum exchange impact damper using pre-straining spring mechanism,” *Int. J. Acoust. Vib.*, vol. 22, no. 4, pp. 422–430,

- 2017, doi: 10.20855/ijav.2017.22.4487.
- [21] L. Son, M. Bur, and M. Rusli, “A new concept for UAV landing gear shock vibration control using pre-straining spring momentum exchange impact damper,” *JVC/Journal Vib. Control*, vol. 24, no. 8, pp. 1455–1468, 2018, doi: 10.1177/1077546316661470.
- [22] M. I. T. T. G. N. I. N. J. Lin, “NII-Electronic Library Service,” *Chem. Pharm. Bull.*, no. 43, p. 2091, 2002, [Online]. Available: <http://www.mendeley.com/research/geology-volcanic-history-eruptive-style-yakedake-volcano-group-central-japan/>
- [23] D. Hrovat and M. Hubbard, “Optimum vehicle suspensions minimizing rms rattlespace, sprung-mass acceleration and jerk,” *J. Dyn. Syst. Meas. Control. Trans. ASME*, vol. 103, no. 3, pp. 228–236, 1981, doi: 10.1115/1.3140633.
- [24] D. J. Cole and D. Cebon, “Validation of an Articulated Vehicle Simulation,” *Veh. Syst. Dyn.*, vol. 21, no. 1, pp. 197–223, 1992, doi: 10.1080/00423119208969009.
- [25] D. J. Cole, D. Cebon, and F. H. Besinger, “Optimisation of passive and semi-active heavy vehicle suspensions,” *SAE Tech. Pap.*, no. 412, 1994, doi: 10.4271/942309.
- [26] David J. Cole, “Fundamental issues in suspension design for heavy road vehicles,” *Veh. Syst. Dyn.*, vol. 35, no. 4–5, pp. 37–41, 2010.
- [27] A. Hać, “Design of disturbance decoupled observer for bilinear systems,” *J. Dyn. Syst. Meas. Control. Trans. ASME*, vol. 114, no. 4, pp. 556–562, 1992, doi: 10.1115/1.2897724.
- [28] D. Karnopp, “Active Damping in Road Vehicle Suspension Systems,” *Veh. Syst. Dyn.*, vol. 12, no. 6, pp. 291–311, 1983, doi: 10.1080/00423118308968758.
- [29] D. Karnopp, “Theoretical Limitations in Active Vehicle Suspensions,” *Veh. Syst. Dyn.*, vol. 15, no. 1, pp. 41–54, 1986, doi: 10.1080/00423118608968839.
- [30] J. K. Hedrick and T. Butsuen, “Invariant properties of automotive suspensions,” *Proc. Inst. Mech. Eng. Part D, Transp. Eng.*, vol. 204, no. 1, pp. 21–27, 1990, doi: 10.1243/pime\_proc\_1990\_204\_128\_02.

- [31] R. Williams, "Automotive active suspensions Part 1: basic principles," *Proc. Inst. Mech. Eng. Part D J. Automob. Eng.*, vol. 211, no. 6, pp. 415–426, 1997, [Online]. Available: <http://dx.doi.org/10.1243/0954407971526551>
- [32] A. Hać and I. Youn, "Optimal design of active and semi-active suspensions including time delays and preview," *J. Vib. Acoust. Trans. ASME*, vol. 115, no. 4, pp. 498–508, 1993, doi: 10.1115/1.2930378.
- [33] N. Jalili and E. Esmailzadeh, "Optimum active vehicle suspensions with actuator time delay," *J. Dyn. Syst. Meas. Control. Trans. ASME*, vol. 123, no. 1, pp. 54–61, 2001, doi: 10.1115/1.1345530.
- [34] D. R. H. Saputra and B. Pramujati, "Rancang Bangun Prototype Unmanned Aerial Vehicle (UAV) dengan Tiga Rotor," *J. Tek. Pomits*, vol. 2, no. 1, pp. 47–52, 2013.
- [35] R. Hidayat and R. Mardiyanto, "Pengembangan Sistem Navigasi Otomatis Pada UAV (Unmanned Aerial Vehicle) dengan GPS(Global Positioning System) Waypoint," *J. Tek. ITS*, vol. 5, no. 2, 2017, doi: 10.12962/j23373539.v5i2.16342.
- [36] L. Ari and N. Wibawa, "Effect of Material Selection on the Strength of the Main Landing Gear Frame for Uav Aircraft," vol. 2, no. 1, pp. 48–52, 2019.
- [37] M. J. Purnomo, "Analisis Statik Kekuatan Struktur Fitting Pada Landing Gear Pada Pesawat N-219," *Angkasa J. Ilm. Bid. Teknol.*, vol. 7, no. 2, p. 105, 2017, doi: 10.28989/angkasa.v7i2.154.
- [38] A. A. Gharapurkar, A. F. Jahromi, R. B. Bhat, and W. F. Xie, "Semi-Active control of aircraft landing gear system using H-infinity control approach," *2013 Int. Conf. Connect. Veh. Expo, ICCVE 2013 - Proc.*, pp. 679–686, 2013, doi: 10.1109/ICCVVE.2013.6799877.
- [39] Y. Li, J. Z. Jiang, P. Sartor, S. A. Neild, and H. Wang, "Including Inerters in Aircraft Landing Gear Shock Strut to Improve the Touch-down Performance," *Procedia Eng.*, vol. 199, pp. 1689–1694, 2017, doi: 10.1016/j.proeng.2017.09.366.
- [40] T. A. Stachiw, F. Khouli, R. G. Langlois, and F. F. Afagh, "The use of an inerter in an aircraft landing gear suspension for improved passenger and crew comfort at touchdown," *AIAA Scitech 2020 Forum*, vol. 1 PartF, no.

- January, 2020, doi: 10.2514/6.2020-1681.
- [41] L. Son, F. Zain, and M. Bur, "METAL: JURNAL SISTEM MEKANIK METAL: Jurnal Sistem Mekanik dan Termal Analisis Respon Landing Gear pada Pesawat Tanpa Awak Saat Mendarat," vol. 02, pp. 79–92, 2020, [Online]. Available: <http://metal.ft.unand.ac.id>
- [42] A. R. Bhise, R. G. Desai, M. R. N. Yerrawar, A. C. Mitra, and D. R. R. Arakerimath, "Comparison Between Passive And Semi-Active Suspension System Using Matlab/Simulink," *IOSR J. Mech. Civ. Eng.*, vol. 13, no. 04, pp. 01–06, 2016, doi: 10.9790/1684-1304010106.
- [43] K. Ghaedi, "A New Passive bar Damper Device for Alleviation of Structural Damages of Structures Subjected to Seismic Motions," *Trends Civ. Eng. its Archit.*, vol. 1, no. 3, pp. 57–62, 2018, doi: 10.32474/tceia.2018.01.000115.
- [44] C. S. Dharankar, M. K. Hada, and S. Chandel, "Performance improvement of passive suspension of vehicles using position dependent damping," *Int. J. Veh. Perform.*, vol. 4, no. 1, pp. 89–111, 2018, doi: 10.1504/ijvp.2018.088802.
- [45] S. Kashem, R. Nagarajah, and M. Ektesabi, *Vehicle Suspension Systems and Electromagnetic Dampers*. Springer International Publishing, 2018.
- [46] R. Alkhatib and M. F. Golnaraghi, "Active structural vibration control: A review," *Shock Vib. Dig.*, vol. 35, no. 5, pp. 367–383, 2003, doi: 10.1177/05831024030355002.
- [47] C. M. Nkemdirim, M. Alzayed, and H. Chaoui, "Linear Quadratic Gaussian Control of a 6-DOF Aircraft Landing Gear," *Energies*, vol. 16, no. 19, pp. 1–18, 2023, doi: 10.3390/en16196902.
- [48] T. Watanabe, S. Hara, and M. Otsuki, "Study on passive momentum exchange landing gear using two-dimensional analysis," *Acta Astronaut.*, vol. 105, no. 2, pp. 407–416, 2014, doi: 10.1016/j.actaastro.2014.10.020.
- [49] E. Petritoli, F. Leccese, and L. Ciani, "Reliability and maintenance analysis of unmanned aerial vehicles," *Sensors (Switzerland)*, vol. 18, no. 9, pp. 1–16, 2018, doi: 10.3390/s18093171.
- [50] A. A. Molina, Y. Huang, and Y. Jiang, "A Review of Unmanned Aerial Vehicle Applications in Construction Management: 2016–2021," *Standards*,

- vol. 3, no. 2, pp. 95–109, 2023, doi: 10.3390/standards3020009.
- [51] N. Çabuk, “Design and Kinematic Analysis of Proposed Adaptive Landing Gear for Multirotor UAV,” *El-Cezeri J. Sci. Eng.*, vol. 9, no. 1, pp. 159–170, 2022, doi: 10.31202/ecjse.952728.
- [52] Y. W. Ding, X. H. Wei, H. Nie, and Y. P. Li, “Discharge coefficient calculation method of landing gear shock absorber and its influence on drop dynamics,” *J. Vibroengineering*, vol. 20, no. 7, pp. 2550–2562, 2018, doi: 10.21595/jve.2018.19049.
- [53] Dinagara Aroulen Vencatasawmy, “Research on Landing Gear Metering Pin and Analysis of its Impact on the Buffer Performance,” *Int. J. Eng. Res.*, vol. V9, no. 07, pp. 356–361, 2020, doi: 10.17577/ijertv9is070229.
- [54] F. Shi, W. Isaac Anak Dean, and T. Suyama, “Single-objective Optimization of Passive Shock Absorber for Landing Gear,” *Am. J. Mech. Eng.*, vol. 7, no. 3, pp. 107–115, 2019, doi: 10.12691/ajme-7-3-1.
- [55] A. S. Yıldız and S. B. Eker, “Semi-active control implementation in aircraft landing gear systems using hardware-in-the-loop test bench,” *Eng. Res. Express*, vol. 6, no. 3, 2024, doi: 10.1088/2631-8695/ad68c3.
- [56] J. Meyer, F. du, and W. Clarke, “Design Considerations for Long Endurance Unmanned Aerial Vehicles,” *Aer. Veh.*, no. May 2015, 2009, doi: 10.5772/6482.
- [57] M. Pak, “İnsansız Hava Aracı İçin Güdümleme Sistemi A Guidance System For Unmanned Air Vehicles,” 2013.
- [58] L. Bai *et al.*, “Design and Experiment of a Deformable Bird-inspired UAV Perching Mechanism,” *J. Bionic Eng.*, vol. 18, no. 6, pp. 1304–1316, 2021, doi: 10.1007/s42235-021-00098-5.
- [59] Q. V. Luong, D. S. Jang, and J. H. Hwang, “Robust adaptive control for an aircraft landing gear equipped with a magnetorheological damper,” *Appl. Sci.*, vol. 10, no. 4, 2020, doi: 10.3390/app10041459.
- [60] V. M. Patil, A. M. Undale, G. M. Singh, and S. S. Patil, “Analysis of Causes of Delay in Any Construction Project,” *Int. J. Mod. Trends Eng. Res.*, vol. 4, no. 2, pp. 128–134, 2017, doi: 10.21884/ijmter.2017.4063.xcnky.
- [61] R. J. Melosh, “Crashworthiness engineering of automobiles and aircraft:

- Progress and promise,” *J. Aircr.*, vol. 14, no. 7, pp. 693–698, 1977, doi: 10.2514/3.58841.
- [62] L. Q. Viet and J. H. Hwang, “A Semi-Active Controller for an Aircraft Landing Gear Equipped with Magnetorheological Damper,” *Appl. Mech. Mater.*, vol. 894, pp. 29–33, 2019, doi: 10.4028/www.scientific.net/amm.894.29.
- [63] C. Han, B. G. Kim, B. H. Kang, and S. B. Choi, “Effects of magnetic core parameters on landing stability and efficiency of magnetorheological damper-based landing gear system,” *J. Intell. Mater. Syst. Struct.*, vol. 31, no. 2, pp. 198–208, 2020, doi: 10.1177/1045389X19862639.

