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DAFTAR PUSTAKA

Ashby, M.F., 1992, *Materials Selection in Mechanical Design*, 1st ed., Pergamon Press, Oxford.

Bhardwaj, N., and Kundu, S.C., 2010, Electrospinning: A Fascinating Fiber Fabrication Technique, *Biotechnology Advances*, Vol. 28, No. 3, pp. 325–347.

Boothroyd, G., Dewhurst, P., and Knight, W.A., 2010, *Product Design for Manufacture and Assembly*, 3rd ed., CRC Press, Boca Raton.

Budynas, R.G., and Nisbett, J.K., 2011, *Shigley's Mechanical Engineering Design*, 9th ed., McGraw-Hill, New York.

Dejene, N.D., and Nemomsa, S.K., 2020, Design for Manufacturing and Assembly—Review, *World Academics Journal of Engineering Sciences*, Vol. 7, No. 3, pp. 60–67.

Formhals, A., 1934, *Process and Apparatus for Preparing Artificial Threads*, U.S. Patent No. 1,975,504, United States Patent Office, Washington, D.C.

Groover, M.P., 2016, *Automation, Production Systems, and Computer-Integrated Manufacturing*, 4th ed., Pearson Education Limited, Harlow.

Huang, Z.M., Zhang, Y.Z., Kotaki, M., and Ramakrishna, S., 2003, A Review on Polymer Nanofibers by Electrospinning and Their Applications in Nanocomposites, *Composites Science and Technology*, Vol. 63, No. 15, pp. 2223–2253.

Jirsak, O., and Petrik, S., 2012, Recent Advances in Nanofibre Technology: Needleless Electrospinning, *International Journal of Nanotechnology*, Vol. 9, No. 8–9, pp. 836–845.

Jirsak, O., Sanetrnik, F., Lukas, D., Kotek, V., Martinova, L., and Chaloupek, J., 2009, *Method of Nanofibres Production from a Polymer Solution Using Electrostatic Spinning and a Device for Carrying Out the Method*, U.S. Patent No. 7,585,437 B2, United States Patent and Trademark Office, Washington, D.C.

Kalpakjian, S., and Schmid, S.R., 2014, *Manufacturing Engineering and Technology*, 7th ed., Pearson Education South Asia, Singapore.

Li, Y., Zhu, J., Cheng, H., Li, G., Cho, H., Jiang, M., Gao, Q., and Zhang, X., 2021, Developments of Advanced Electrospinning Techniques: A Critical Review, *Advanced Materials Technologies*, Vol. 6, No. 11, Article 2100410.

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Narayan, K.L., Rao, K.M., and Sarcar, M.M.M., 2008, *Computer Aided Design and Manufacturing*, Prentice-Hall of India, New Delhi.

Niu, H., Wang, X., and Lin, T., 2011, Needleless Electrospinning: Developments and Performances, in Lin, T. (Ed.), *Nanofibers—Production, Properties and Functional Applications*, IntechOpen, Rijeka.

Niu, H., Wang, X., and Lin, T., 2012a, Needleless Electrospinning: Influences of Fibre Generator Geometry, *Journal of the Textile Institute*, Vol. 103, No. 7, pp. 787–794.

Niu, H., Wang, X., and Lin, T., 2012b, Upward Needleless Electrospinning of Nanofibers, *Journal of Engineered Fibers and Fabrics*, Vol. 7, No. 3, pp. 17–22.

Pahl, G., Beitz, W., Feldhusen, J., and Grote, K.H., 2007, *Engineering Design: A Systematic Approach*, 3rd ed., Springer-Verlag, London.

Ramakrishna, S., Fujihara, K., Teo, W.E., Lim, T.C., and Ma, Z., 2005, *An Introduction to Electrospinning and Nanofibers*, World Scientific Publishing, Singapore.

Ramakrishnan, R., Gimbun, J., Samsuri, F., Narayanamurthy, V., Gajendran, N., Lakshmi, Y.S., Stranska, D., and Ranganathan, B., 2016, Needleless Electrospinning Technology—An Entrepreneurial Perspective, *Indian Journal of Science and Technology*, Vol. 9, No. 15, pp. 1–11.

Reneker, D.H., and Chun, I., 1996, Nanometre Diameter Fibres of Polymer, Produced by Electrospinning, *Nanotechnology*, Vol. 7, No. 3, pp. 216–223.

Reneker, D.H., and Yarin, A.L., 2008, Electrospinning Jets and Polymer Nanofibers, *Polymer*, Vol. 49, No. 10, pp. 2387–2425.

Sasithorn, N., Martinová, L., Horáková, J., and Mongkholrattanasit, R., 2016, Fabrication of Silk Fibroin Nanofibres by Needleless Electrospinning, in Haider, S., and Haider, A. (Eds.), *Electrospinning—Material, Techniques, and Biomedical Applications*, IntechOpen, London.

Taylor, G.I., 1964, Disintegration of Water Drops in an Electric Field, *Proceedings of the Royal Society of London. Series A: Mathematical and Physical Sciences*, Vol. 280, No. 1382, pp. 383–397.

Ulrich, K.T., and Eppinger, S.D., 2011, *Product Design and Development*, 5th ed., McGraw-Hill, New York.

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Wang, X., Niu, H., Wang, X., and Lin, T., 2012, Needleless Electrospinning of Uniform Nanofibers Using Spiral Coil Spinnerets, *Journal of Nanomaterials*, Vol. 2012, Article 785920, pp. 1–10.

Yarin, A.L., and Zussman, E., 2004, Upward Needleless Electrospinning of Multiple Nanofibers, *Polymer*, Vol. 45, No. 9, pp. 2977–2980.