

Bibliography

- Aarset, M. V. (1987). How to identify a bathtub hazard rate. *IEEE Transactions on Reliability*, 36(1), 106–108.
- Abdel-Ghaly, A., Aly, H., & Abdel-Rahman, E. (2016a). Adapting the extended Neyman's smooth test to be used in accelerated failure time models. *Journal of Data Science*, 14(2), 271–293.
- Abdel Ghaly, A. A., Aly, H. M., & Salah, R. N. (2016b). Different estimation methods for constant stress accelerated life test under the family of the exponentiated distributions. *Quality and Reliability Engineering International*, 32(3), 1095–1108.
- Abdel-Hamid, A. H., & Al-Hussaini, E. K. (2011). Inference for a progressive stress model from Weibull distribution under progressive type-II censoring. *Journal of Computational and Applied Mathematics*, 235(17), 5259–5271.
- Abravesh, A., Ganji, M., & Mostafaiy, B. (2019). Classical and bayesian estimation of stress-strength reliability in type II censored Pareto distributions. *Communications in Statistics-Simulation and Computation*, 48(8), 2333–2358.
- Adamidis, K., & Loukas, S. (1998). A lifetime distribution with decreasing failure rate. *Statistics and Probability Letters*, 39(1), 35–42.
- Ahmed, E. A. (2014). Bayesian estimation based on progressive type-II censoring from two-parameter bathtub-shaped lifetime model: an Markov chain Monte Carlo approach. *Journal of Applied Statistics*, 41(4), 752–768.
- Ahmed, S. E., Castro-Kuriss, C., Flores, E., Leiva, V., & Sanhueza, A. (2010). A truncated version of the Birnbaum-Saunders distribution with an application in financial risk. *Pakistan Journal of Statistics*, 26, 293-311.
- Ahsan, S., Lemma, T. A., & Gebremariam, M. A. (2020). Reliability analysis of gas turbine engine by means of bathtub-shaped failure rate distribution. *Process Safety Progress*, 39, e12115.
- Akman, O., Sansgiry, P., & Minnotte, M. (1999). *On the estimation of reliability based on mixture of inverse Gaussian distribution applied statistical science IV*. Nova Science Publishers, Hauppauge.
- Al Abbasi, J. N., Khaleel, M. A., Abdal-hammed, M. K., Loh, Y. F., & Ozel, G. (2019). A new uniform distribution with bathtub-shaped failure rate with

Bibliography

- simulation and application. *Mathematical Sciences*, 13, 105–114.
- Alamri, O. A., Abd El-Raouf, M., Ismail, E. A., Almaspoor, Z., Alsaedi, B. S., Khosa, S. K., & Yusuf, M. (2021). Estimate stress-strength reliability model using Rayleigh and half-normal distribution. *Computational Intelligence and Neuroscience*, 2021.
- AL-Hussaini, E. K., Abdel-Hamid, A. H., & Hashem, A. F. (2015). One-sample bayesian prediction intervals based on progressively type-II censored data from the half-logistic distribution under progressive stress model. *Metrika*, 78, 771–783.
- Al-Hussaini, E. K., & Sultan, K. S. (2001). Ch. 5. reliability and hazard based on finite mixture models. *Handbook of Statistics*, 20, 139–183.
- Al-Mutairi, D., Ghitany, M., & Kundu, D. (2013). Inferences on stress-strength reliability from Lindley distributions. *Communications in Statistics-Theory and Methods*, 42(8), 1443–1463.
- Aly, H. M., & Bleed, S. O. (2013). Bayesian estimation for the generalized logistic distribution type-II censored accelerated life testing. *International Journal of Contemporary Mathematical Sciences*, 8(20), 969–986.
- Anakha, K. K., & Chacko, V. M. (2021). Dus-Kumaraswamy distribution: A bathtub shaped failure rate model. *International Journal of Statistics and Reliability Engineering*, 8(3), 359–367.
- Andrews, D., & Herzberg, A. (2012). Data: a collection of problems from many fields for the student and research worker.
- Bagdonavičius, V. (1978). Testing hypothesis of the linear accumulation of damages. *Probability Theory and its Applications*, 23, 403–408.
- Bai, D. S., Kim, M., & Lee, S. (1989). Optimum simple step-stress accelerated life tests with censoring. *IEEE Transactions on Reliability*, 38(5), 528–532.
- Bai, X., Shi, Y., Liu, Y., & Liu, B. (2018). Reliability estimation of multicomponent stress–strength model based on copula function under progressively hybrid censoring. *Journal of Computational and Applied Mathematics*, 344, 100–114.
- Bakouch, H. S., Jazi, M. A., Nadarajah, S., Dolati, A., & Roozegar, R. (2014). A lifetime model with increasing failure rate. *Applied Mathematical Modelling*, 38(23), 5392–5406.
- Balakrishnan, N. (2009). A synthesis of exact inferential results for exponential

- step-stress models and associated optimal accelerated life-tests. *Metrika*, 69(2-3), 351.
- Balakrishnan, N., Gupta, R. C., Kundu, D., Leiva, V., & Sanhueza, A. (2011). On some mixture models based on the Birnbaum–Saunders distribution and associated inference. *Journal of Statistical Planning and Inference*, 141(7), 2175–2190.
- Balakrishnan, N., & Han, D. (2008). Exact inference for a simple step-stress model with competing risks for failure from exponential distribution under type-II censoring. *Journal of Statistical Planning and Inference*, 138(12), 4172–4186.
- Balakrishnan, N., & Kundu, D. (2019). Birnbaum-Saunders distribution: A review of models, analysis, and applications. *Applied Stochastic Models in Business and Industry*, 35(1), 4–49.
- Balakrishnan, N., Leiva, V., Sanhueza, A., & Vilca, F. (2009). Estimation in the Birnbaum-Saunders distribution based on scale-mixture of normals and the EM-algorithm. *SORT-Statistics and Operations Research Transactions*, 171–192.
- Barlow, R. E., & Proschan, F. (1975). *Statistical theory of reliability and life testing: probability models* (Tech. Rep.). Florida State Univ Tallahassee.
- Basak, I., & Balakrishnan, N. (2018). A note on the prediction of censored exponential lifetimes in a simple step-stress model with type-II censoring. *Calcutta Statistical Association Bulletin*, 70(1), 57–73.
- Benkhelifa, L. (2021). The Weibull Birnbaum-Saunders distribution and its applications. *Statistics, Optimization and Information Computing*, 9(1), 61–81.
- Bessler, S., Chernoff, H., & Marshall, A. W. (1962). An optimal sequential accelerated life test. *Technometrics*, 4(3), 367–379.
- Bhattacharyya, G., & Soejoeti, Z. (1981). Asymptotic normality and efficiency of modified least squares estimators in some accelerated life test models. *Sankhyā: The Indian Journal of Statistics, Series B*, 18–39.
- Bhattacharyya, G. K., & Fries, A. (1982). Inverse Gaussian regression and accelerated life tests. *Lecture Notes-Monograph Series*, 2, 101–117.
- Bhattacharyya, G. K., & Soejoeti, Z. (1989). A tampered failure rate model for step-stress accelerated life test. *Communications in Statistics-Theory and*

Bibliography

- Methods*, 18(5), 1627–1643.
- Birnbaum, Z., & McCarty, R. (1958). A distribution-free upper confidence bound for $\Pr[Y < X]$, based on independent samples of X and Y . *The Annals of Mathematical Statistics*, 558–562.
- Birnbaum, Z., et al. (1956). On a use of the Mann-Whitney statistic. In *Proceedings of the third berkeley symposium on mathematical statistics and probability* (Vol. 1, pp. 13–17).
- Birnbaum, Z., & Saunders, S. C. (1968). A probabilistic interpretation of miner's rule. *SIAM Journal on Applied Mathematics*, 16(3), 637–652.
- Birnbaum, Z. W., & Saunders, S. C. (1969a). A new family of life distributions. *Journal of Applied Probability*, 6(2), 319–327.
- Birnbaum, Z. W., & Saunders, S. C. (1969b). Estimation for a family of life distributions with applications to fatigue. *Journal of Applied Probability*, 6(2), 328–347.
- Block, H. W., Li, Y., Savits, T. H., & Wang, J. (2008). Continuous mixtures with bathtub-shaped failure rates. *Journal of Applied Probability*, 45(1), 260–270.
- Byrnes, J. M., Lin, Y.-J., Tsai, T.-R., & Lio, Y. (2019). Bayesian inference of $\delta = P(X < Y)$ for Burr type XII distribution based on progressively first failure-censored samples. *Mathematics*, 7(9), 794.
- Cancho, V. G., Louzada-Neto, F., & Barriga, G. D. (2011). The Poisson-exponential lifetime distribution. *Computational Statistics and Data Analysis*, 55(1), 677–686.
- Castillo, G.-H. W., N O, & Bolfarine, H. (2011). Epsilon Birnbaum-Saunders distribution family: properties and inference. *Statistical Papers*, 52, 871–883.
- Chacko, V. (2016). X-exponential bathtub failure rate model. *Reliability: Theory and Applications*, 11(4 (43)), 55–65.
- Chacko, V. M., Mariya, J. P. V., & Paul, D. (2015). p-Birnbaum Saunders distribution: Applications to reliability and electronic banking habits. *Reliability: Theory and Applications*, 10(1(36)), 70–77.
- Chandra, N., Khan, M. A., & Gopal, G. (2017). Optimum quadratic step-stress accelerated life test plan for Weibull distribution under type-I censoring. *International Journal of System Assurance Engineering and Management*, 8, 585–591.

- Chen, S., & Gui, W. (2020). Statistical analysis of a lifetime distribution with a bathtub-shaped failure rate function under adaptive progressive type-II censoring. *Mathematics*, 8(5), 670.
- Chen, Z. (2000). A new two-parameter lifetime distribution with bathtub shape or increasing failure rate function. *Statistics and Probability Letters*, 49(2), 155–161.
- Chernoff, H. (1962). Optimal accelerated life designs for estimation. *Technometrics*, 4(3), 381–408.
- Choulakian, V., & Stephens, M. A. (2001). Goodness-of-fit tests for the generalized Pareto distribution. *Technometrics*, 43(4), 478–484.
- Church, J. D., & Harris, B. (1970). The estimation of reliability from stress-strength relationships. *Technometrics*, 12(1), 49–54.
- Cordeiro, G. M., Afify, A. Z., Yousof, H. M., Cakmakyan, S., & Ozel, G. (2018). The Lindley Weibull distribution: properties and applications. *Anais da Academia Brasileira de Ciências*, 90, 2579–2598.
- Cordeiro, G. M., & Lemonte, A. J. (2011). The β -Birnbaum–Saunders distribution: An improved distribution for fatigue life modeling. *Computational Statistics and Data Analysis*, 55(3), 1445–1461.
- Cordeiro, G. M., Ortega, E. M., & da Cunha, D. C. C. (2013). The exponentiated generalized class of distributions. *Journal of Data Science*, 11(1), 1–27.
- Deepthi, K., & Chacko, V. (2020a). An upside-down bathtub-shaped failure rate model using a dus transformation of Lomax distribution. In *Stochastic models in reliability engineering* (pp. 81–100). CRC Press.
- Deepthi, K. S., & Chacko, V. M. (2020b). Reliability estimation of stress-strength model using three parameter generalized Lindley distribution. *Advances and Applications in Statistics*, 65(01), 69–89.
- Desmond, A. (1985). Stochastic models of failure in random environments. *Canadian Journal of Statistics*, 13(3), 171–183.
- Dey, S., Ghosh, I., & Kumar, D. (2019). Alpha-power transformed Lindley distribution: properties and associated inference with application to earthquake data. *Annals of Data Science*, 6, 623–650.
- Dey, S., Raheem, E., & Mukherjee, S. (2017). Statistical properties and different methods of estimation of transmuted Rayleigh distribution. *Revista Colombiana*

Bibliography

- de Estadística*, 40(1), 165–203.
- Díaz-García, J. A., & Leiva-Sánchez, V. (2005). A new family of life distributions based on the elliptically contoured distributions. *Journal of Statistical Planning and Inference*, 128(2), 445–457.
- Dutta, S., Sultana, F., & Kayal, S. (2023). Statistical inference for Gumbel type-II distribution under simple step-stress life test using type-II censoring. *Iranian Journal of Science*, 47(1), 155–173.
- El-Din, M. M., Abu-Youssef, S., Ali, N. S., & Abd El-Raheem, A. (2016). Parametric inference on step-stress accelerated life testing for the extension of exponential distribution under progressive type-II censoring. *Communications for Statistical Applications and Methods*, 23(4), 269–285.
- Escobar, L. A., & Meeker, W. Q. (2006). A review of accelerated test models. *Statistical Science*, 552–577.
- Fierro, R., Leiva, V., Ruggeri, F., & Sanhueza, A. (2013). On a Birnbaum–Saunders distribution arising from a non-homogeneous Poisson process. *Statistics and Probability Letters*, 83(4), 1233–1239.
- Gauthami, P., & Chacko, V. (2021). Dus transformation of inverse Weibull distribution: an upside-down failure rate model. *Reliability: Theory and Applications*, 16(2 (62)), 58–71.
- Ghitany, M., Al-Mutairi, D. K., & Aboukhamseen, S. (2015). Estimation of the reliability of a stress-strength system from power Lindley distributions. *Communications in Statistics-Simulation and Computation*, 44(1), 118–136.
- Glaser, R. E. (1980). Bathtub and related failure rate characterizations. *Journal of the American Statistical Association*, 75(371), 667–672.
- Goel, P. K. (1972). Some estimation problems in the study of tampered random variables. *Technical Report no.50, Department of Statistics, Carnegie-Mellon University, Pittsburgh, Pennsylvania, 1972*.
- Gómez, O.-P. J. F., Héctor W, & Bolfarine, H. (2009). An extension of the generalized Birnbaum–Saunders distribution. *Statistics and Probability Letters*, 79(3), 331–338.
- Gupta, R. C., & Brown, N. (2001). Reliability studies of the skew-normal distribution and its application to a strength-stress model. *Communications in Statistics-Theory and Methods*, 30(11), 2427–2445.

- Gupta, R. D., & Kundu, D. (1999). Theory & methods: Generalized exponential distributions. *Australian & New Zealand Journal of Statistics*, 41(2), 173–188.
- Gupta, R. D., & Kundu, D. (2001). Exponentiated exponential family: An alternative to gamma and Weibull distributions. *Biometrical Journal: Journal of Mathematical Methods in Biosciences*, 43(1), 117–130.
- Gupta, R. D., & Kundu, D. (2009). A new class of weighted exponential distributions. *Statistics*, 43(6), 621–634.
- Hakamipour, N., & Rezaei, S. (2017). Optimizing the simple step stress accelerated life test with type I censored Frechet data. *REVSTAT-Statistical Journal*, 15(1), 1–23.
- Hamada, M. (2015). Bayesian analysis of step-stress accelerated life tests and its use in planning. *Quality Engineering*, 27(3), 276–282.
- Han, D., & Balakrishnan, N. (2010). Inference for a simple step-stress model with competing risks for failure from the exponential distribution under time constraint. *Computational Statistics and Data Analysis*, 54(9), 2066–2081.
- Han, D., & Kundu, D. (2014). Inference for a step-stress model with competing risks for failure from the generalized exponential distribution under type-I censoring. *IEEE Transactions on Reliability*, 64(1), 31–43.
- Hanagal, D. D. (1997). Note on estimation of reliability under bivariate Pareto stress-strength model. *Statistical Papers*, 38, 453–459.
- Hjorth, U. (1980). A reliability distribution with increasing, decreasing, constant and bathtub-shaped failure rates. *Technometrics*, 22(1), 99–107.
- Hu, C.-H., Plante, R. D., & Tang, J. (2012). Step-stress accelerated life tests: a proportional hazards-based non-parametric model. *IIE Transactions*, 44(9), 754–764.
- Jha, M. K., Dey, S., Alotaibi, R. M., & Tripathi, Y. M. (2020). Reliability estimation of a multicomponent stress-strength model for unit Gompertz distribution under progressive type II censoring. *Quality and Reliability Engineering International*, 36(3), 965–987.
- Jose, J., Xavier, T., & Drisya, M. (2019). Estimation of stress-strength reliability using Kumaraswamy half-logistic distribution. *Journal of Probability and Statistical Science*, 17(2), 141–154.
- Jose, J. K., Drisya, M., & Manoharan, M. (2022). Estimation of stress-strength

Bibliography

- reliability using discrete phase type distribution. *Communications in Statistics-Theory and Methods*, 51(2), 368–386.
- Kannan, N., & Kundu, D. (2020). Simple step-stress models with a cure fraction. *Brazilian Journal of Probability and Statistics*, 34(1), 2-17.
- Kao, J. H. (1959). A graphical estimation of mixed Weibull parameters in life-testing of electron tubes. *Technometrics*, 1(4), 389–407.
- Karimi Ezmareh, Z., Yari, G., et al. (2022). Statistical inference of stress-strength reliability of Gompertz distribution under type II censoring. *Advances in Mathematical Physics*, 2022.
- Kateri, M., & Kamps, U. (2015). Inference in step-stress models based on failure rates. *Statistical Papers*, 56, 639–660.
- Kateri, M., & Kamps, U. (2017). Hazard rate modeling of step-stress experiments. *Annual Review of Statistics and Its Application*, 4, 147–168.
- Kateri, M., Kamps, U., & Balakrishnan, N. (2011). Optimal allocation of change points in simple step-stress experiments under type-II censoring. *Computational Statistics and Data Analysis*, 55(1), 236–247.
- Kavya, P., & Manoharan, M. (2020). On a generalized lifetime model using DUS transformation. *Applied Probability and Stochastic Processes*, 281–291.
- Kavya, P., & Manoharan, M. (2021). Some parsimonious models for lifetimes and applications. *Journal of Statistical Computation and Simulation*, 91(18), 3693–3708.
- Kayal, T., Tripathi, Y. M., Singh, D. P., & Rastogi, M. K. (2017). Estimation and prediction for Chen distribution with bathtub shape under progressive censoring. *Journal of Statistical Computation and Simulation*, 87(2), 348–366.
- Khamis, I. H., & Higgins, J. J. (1998). A new model for step-stress testing. *IEEE Transactions on Reliability*, 47(2), 131–134.
- Kim, C., & Bai, D.-S. (2002). Analyses of accelerated life test data under two failure modes. *International Journal of Reliability, Quality and Safety Engineering*, 9(02), 111–125.
- Klein, J. P., & Moeschberger, M. L. (2003). *Survival analysis: techniques for censored and truncated data* (Vol. 1230). Springer.
- Kolmogorov, A. N. (1933). Grundbegriffe der wahrscheinlichkeitstheorie und der Mathematik.

- Komori, Y. (2006). Properties of the Weibull cumulative exposure model. *Journal of Applied Statistics*, 33(1), 17–34.
- Kotz, S., Leiva, V., & Sanhueza, A. (2010). Two new mixture models related to the inverse Gaussian distribution. *Methodology and Computing in Applied Probability*, 12, 199–212.
- Kotz, S., Pensky, M., et al. (2003). *The stress-strength model and its generalizations: theory and applications*. World Scientific.
- Koutras, V. P. (2011). Two-level software rejuvenation model with increasing failure rate degradation. In *Dependable computer systems* (pp. 101–115).
- Krishna, H., Dube, M., & Garg, R. (2019). Estimation of stress strength reliability of inverse Weibull distribution under progressive first failure censoring. *Austrian Journal of Statistics*, 48(1), 14–37.
- Krishnamoorthy, K., Mukherjee, S., Guo, H., et al. (2007). Inference on reliability in two-parameter exponential stress-strength model. *Metrika*, 65(3), 261–273.
- Kumar, D., Nassar, M., & Dey, S. (2022). Constant stress accelerated life test: Different methods of estimation under the exponentiated power Lindley distribution. *Strength of Materials*, 54(3), 444–461.
- Kumar, D., Singh, U., & Singh, S. K. (2015). A method of proposing new distribution and its application to bladder cancer patients data. *Journal of Statistics Applications and Probability Letters*, 2(3), 235–245.
- Kumar Mahto, A., Dey, S., & Mani Tripathi, Y. (2020). Statistical inference on progressive-stress accelerated life testing for the logistic exponential distribution under progressive type-II censoring. *Quality and Reliability Engineering International*, 36(1), 112–124.
- Kundu, D., Balakrishnan, N., & Jamalizadeh, A. (2010). Bivariate Birnbaum–Saunders distribution and associated inference. *Journal of Multivariate Analysis*, 101(1), 113–125.
- Kundu, D., Balakrishnan, N., & Jamalizadeh, A. (2013). Generalized multivariate Birnbaum–Saunders distributions and related inferential issues. *Journal of Multivariate Analysis*, 116, 230–244.
- Kundu, D., & Gupta, R. D. (2005). Estimation of $P[Y < X]$ for generalized exponential distribution. *Metrika*, 61(3), 291–308.
- Kundu, D., & Gupta, R. D. (2006). Estimation of $P [Y < X]$ for Weibull distributions.

Bibliography

- IEEE Transactions on Reliability*, 55(2), 270–280.
- Kundu, D., Kannan, N., & Balakrishnan, N. (2008). On the hazard function of Birnbaum–Saunders distribution and associated inference. *Computational Statistics and Data Analysis*, 52(5), 2692–2702.
- Kundu, D., & Raqab, M. Z. (2009). Estimation of $R = P(Y < X)$ for three-parameter Weibull distribution. *Statistics and Probability Letters*, 79(17), 1839–1846.
- Kuş, C. (2007). A new lifetime distribution. *Computational Statistics and Data Analysis*, 51(9), 4497–4509.
- Lai, C., Xie, M., & Murthy, D. (2001). Ch. 3. bathtub-shaped failure rate life distributions. *Handbook of Statistics*, 20, 69–104.
- Lai, C. D., & Balakrishnan, N. (2009). *Continuous bivariate distributions*. Springer.
- Lawless, J. F. (1982). *Statistical models and methods for lifetime data*. John Wiley & Sons.
- Lee, E. T., & Wang, J. (2003). *Statistical methods for survival data analysis* (Vol. 476). John Wiley & Sons.
- Leiva, V. (2015). The Birnbaum–Saunders distribution.
- Leiva, V., Athayde, E., Azevedo, C., & Marchant, C. (2011). Modeling wind energy flux by a Birnbaum–Saunders distribution with an unknown shift parameter. *Journal of Applied Statistics*, 38(12), 2819–2838.
- Leiva, V., Marco, R., Balakrishnan, N., & Sanhueza, A. (2008). Lifetime analysis based on the generalized Birnbaum–Saunders distribution. *Computational Statistics and Data Analysis*, 52(4), 2079–2097.
- Leiva, V., Sanhueza, A., & Angulo, J. M. (2009). A length-biased version of the Birnbaum–Saunders distribution with application in water quality. *Stochastic Environmental Research and Risk Assessment*, 23, 299–307.
- Leiva, V., Santos-Neto, M., Cysneiros, F. J. A., & Barros, M. (2016). A methodology for stochastic inventory models based on a zero-adjusted Birnbaum–Saunders distribution. *Applied Stochastic Models in Business and Industry*, 32(1), 74–89.
- Lemonte, A. J. (2013a). A new exponential-type distribution with constant, decreasing, increasing, upside-down bathtub and bathtub-shaped failure rate function. *Computational Statistics and Data Analysis*, 62, 149–170.
- Lemonte, A. J. (2013b). A new extension of the Birnbaum–Saunders distribution.

- Brazilian Journal of Probability and Statistics*, 27, 133-149.
- León, R. V., Ramachandran, R., Ashby, A. J., & Thyagarajan, J. (2007). Bayesian modeling of accelerated life tests with random effects. *Journal of quality technology*, 39(1), 3–16.
- Lomax, K. S. (1954). Business failures: Another example of the analysis of failure data. *Journal of the American Statistical Association*, 49(268), 847–852.
- Mann, N. R., Schafer, R. E., & Singpurwalla, N. D. (1974). Methods for statistical analysis of reliability and life data(book). *Research supported by the U. S. Air Force and Rockwell International Corp. New York, John Wiley and Sons, Inc., 1974. 573 p.*
- Maurya, S. K., Kaushik, A., Singh, S. K., & Singh, U. (2017a). A new class of exponential transformed Lindley distribution and its application to yarn data. *International Journal of Statistics and Economics*, 18(2), 135–151.
- Maurya, S. K., Kaushik, A., Singh, S. K., & Singh, U. (2017b). A new class of distribution having decreasing, increasing, and bathtub-shaped failure rate. *Communications in Statistics-Theory and Methods*, 46(20), 10359–10372.
- Meeker, W. Q., & Escobar, L. A. (1998). Statistical methods for reliability data. *A. Wiley Interscience Publications*, 639.
- Miller, R., & Nelson, W. (1983). Optimum simple step-stress plans for accelerated life testing. *IEEE Transactions on Reliability*, 32(1), 59–65.
- Mohie El-Din, M., Abu-Youssef, S., Ali, N. S., & Abd El-Raheem, A. (2017). Classical and bayesian inference on progressive-stress accelerated life testing for the extension of the exponential distribution under progressive type-II censoring. *Quality and Reliability Engineering International*, 33(8), 2483–2496.
- Mudholkar, G. S., & Srivastava, D. K. (1993). Exponentiated Weibull family for analyzing bathtub failure-rate data. *IEEE Transactions on Reliability*, 42(2), 299–302.
- Nadar, M., & Kızılaslan, F. (2014). Classical and bayesian estimation of $P(X < Y)$ using upper record values from Kumaraswamy's distribution. *Statistical Papers*, 55, 751–783.
- Nadar, M., Kızılaslan, F., & Papadopoulos, A. (2014). Classical and bayesian estimation of $P(Y < X)$ for Kumaraswamy's distribution. *Journal of Statistical Computation and Simulation*, 84(7), 1505–1529.

Bibliography

- Nadarajah, S., Bakouch, H. S., & Tahmasbi, R. (2011). A generalized Lindley distribution. *Sankhya B*, 73, 331–359.
- Nadarajah, S., & Gupta, A. K. (2007). The exponentiated gamma distribution with application to drought data. *Calcutta Statistical Association Bulletin*, 59(1-2), 29–54.
- Naderi, M., Mozafari, M., & Okhli, K. (2020). Finite mixture modeling via skew-Laplace Birnbaum–Saunders distribution. *Journal of Statistical Theory and Applications*, 19(1), 49–58.
- Nelson, W. (1980). Accelerated life testing-step-stress models and data analyses. *IEEE Transactions on Reliability*, 29(2), 103–108.
- Owen, W. J. (2006). A new three-parameter extension to the Birnbaum-Saunders distribution. *IEEE Transactions on Reliability*, 55(3), 475–479.
- Pal, A., Samanta, D., Mitra, S., & Kundu, D. (2021). A simple step-stress model for Lehmann family of distributions. *Advances in Statistics-Theory and Applications: Honoring the Contributions of Barry C. Arnold in Statistical Science*, 315–343.
- Pal, M., Ali, M. M., & Woo, J. (2006). Exponentiated Weibull distribution. *Statistica*, 66(2), 139–147.
- Parsa, M., Borzadaran, G. M., & Roknabadi, A. R. (2014). On the change points of mean residual life and failure rate functions for some generalized gamma type distributions. *International Journal of Metrology and Quality Engineering*, 5(1), 102.
- Pascual, F. G., & Montepiedra, G. (2003). Model-robust test plans with applications in accelerated life testing. *Technometrics*, 45(1), 47–57.
- Proschan, F. (1963). Theoretical explanation of observed decreasing failure rate. *Technometrics*, 5(3), 375–383.
- Rajarshi, S., & Rajarshi, M. (1988). Bathtub distributions: A review. *Communications in Statistics-Theory and Methods*, 17(8), 2597–2621.
- Rao, G. S., Mbwambo, S., & Josephat, P. (2019). Estimation of stress–strength reliability from exponentiated inverse Rayleigh distribution. *International Journal of Reliability, Quality and Safety Engineering*, 26(01), 1950005.
- Raqab, M. Z., & Kundu, D. (2005). Comparison of different estimators of $P[Y < X]$ for a scaled Burr type X distribution. *Communications in Statistics—Simulation*

- and Computation®, 34(2), 465–483.
- Raqab, M. Z., Madi, M. T., & Kundu, D. (2008). Estimation of $P(Y < X)$ for the three-parameter generalized exponential distribution. *Communications in Statistics—Theory and Methods*, 37(18), 2854–2864.
- Rényi, A. (1961). On measures of entropy and information. In *Proceedings of the fourth berkeley symposium on mathematical statistics and probability, volume 1: Contributions to the theory of statistics* (Vol. 4, pp. 547–562).
- Ross, S. M., Shanthikumar, J. G., & Zhu, Z. (2005). On increasing-failure-rate random variables. *Journal of Applied Probability*, 42(3), 797–809.
- Samanta, D., Koley, A., Gupta, A., & Kundu, D. (2020). Exact inference of a simple step-stress model with hybrid type-II stress changing time. *Journal of Statistical Theory and Practice*, 14, 1–27.
- Sanhueza, A., Leiva, V., & Balakrishnan, N. (2008). The generalized Birnbaum-Saunders distribution and its theory, methodology, and application. *Communications in Statistics—Theory and Methods*, 37(5), 645–670.
- Sarhan, A. M., & Kundu, D. (2009). Generalized linear failure rate distribution. *Communications in Statistics-Theory and Methods*, 38(5), 642–660.
- Saulo, H., Leão, J., & Bourguignon, M. (2012). The Kumaraswamy Birnbaum-Saunders distribution. *Journal of Statistical Theory and Practice*, 6(4), 745–759.
- Schmoyer, R. L. (1991). Nonparametric analyses for two-level single-stress accelerated life tests. *Technometrics*, 33(2), 175–186.
- Sedyakin, N. (1966). On one physical principle in reliability theory. *Technical Cybernetics*, 3, 80–87.
- Seo, K., & Pan, R. (2017). Data analysis of step-stress accelerated life tests with heterogeneous group effects. *IISE Transactions*, 49(9), 885–898.
- Sha, N., & Pan, R. (2014). Bayesian analysis for step-stress accelerated life testing using Weibull proportional hazard model. *Statistical Papers*, 55, 715–726.
- Shafiq, M., & Viertl, R. (2017). Bathtub hazard rate distributions and fuzzy life times. *Iranian Journal of Fuzzy Systems*, 14(5), 31–41.
- Sharma, V. K., Singh, S. K., Singh, U., & Agiwal, V. (2015). The inverse Lindley distribution: a stress-strength reliability model with application to head and neck cancer data. *Journal of Industrial and Production Engineering*, 32(3),

Bibliography

- 162–173.
- Shehla, R., & Khan, A. A. (2016). Reliability analysis using an exponential power model with bathtub-shaped failure rate function: a bayes study. *SpringerPlus*, 5, 1–22.
- Shrahili, M., & Kayid, M. (2022). Modeling extreme value data with an upside down bathtub-shaped failure rate model. *Open Physics*, 20(1), 484–492.
- Sindhu, T. N., Anwar, S., Hassan, M. K., Lone, S. A., Abushal, T. A., & Shafiq, A. (2023). An analysis of the new reliability model based on bathtub-shaped failure rate distribution with application to failure data. *Mathematics*, 11(4), 842.
- Sonker, P. K., Kumar, M., & Saroj, A. (2023). Stress–strength reliability models on power-Muth distribution. *International Journal of System Assurance Engineering and Management*, 14(1), 173–195.
- Surles, J., & Padgett, W. (2005). Some properties of a scaled Burr type X distribution. *Journal of Statistical Planning and Inference*, 128(1), 271–280.
- Tripathi, A., Singh, U., & Singh, S. K. (2021). Inferences for the DUS-exponential distribution based on upper record values. *Annals of Data Science*, 8, 387–403.
- Varghese, A. K., & Chacko, V. (2022). Estimation of stress-strength reliability for Akash distribution. *Reliability: Theory and Applications*, 17(3 (69)), 52–58.
- Vilca, S. A.-L. V., F, & Christakos, G. (2010). An extended Birnbaum–Saunders model and its application in the study of environmental quality in Santiago, Chile. *Stochastic Environmental Research and Risk Assessment*, 24, 771–782.
- Vilca-Labra, F., & Leiva-Sánchez, V. (2006). A new fatigue life model based on the family of skew-elliptical distributions. *Communications in Statistics—Theory and Methods*, 35(2), 229–244.
- Volodin, I. N., & Dzhungurova, O. A. (2000). On limit distributions emerging in the generalized Birnbaum-Saunders model. *Journal of Mathematical Sciences*, 99, 1348–1366.
- Wang, F. (2000). A new model with bathtub-shaped failure rate using an additive Burr XII distribution. *Reliability Engineering and System Safety*, 70(3), 305–312.
- Wang, J. (2020). Data analysis of step-stress accelerated life test with random group effects under Weibull distribution. *Mathematical Problems in Engineering*,

- 2020, 1–11.
- Wang, R., Sha, N., Gu, B., & Xu, X. (2014). Statistical analysis of a Weibull extension with bathtub-shaped failure rate function. *Advances in Statistics*, 2014.
- Wang, X., Yu, C., & Li, Y. (2015). A new finite interval lifetime distribution model for fitting bathtub-shaped failure rate curve. *Mathematical Problems in Engineering*, 2015.
- Wu, S.-J., Lin, Y.-P., & Chen, S.-T. (2008). Optimal step-stress test under type I progressive group-censoring with random removals. *Journal of Statistical Planning and Inference*, 138(4), 817–826.
- Xavier, T., & Jose, J. K. (2021a). A study of stress-strength reliability using a generalization of power transformed half-logistic distribution. *Communications in Statistics-Theory and Methods*, 50(18), 4335–4351.
- Xavier, T., & Jose, J. K. (2021b). Estimation of reliability in a multicomponent stress–strength model based on power transformed half-logistic distribution. *International Journal of Reliability, Quality and Safety Engineering*, 28(02), 2150009.
- Xie, M., & Lai, C. D. (1996). Reliability analysis using an additive Weibull model with bathtub-shaped failure rate function. *Reliability Engineering and System Safety*, 52(1), 87–93.
- Xie, M., Tang, Y., & Goh, T. N. (2002). A modified Weibull extension with bathtub-shaped failure rate function. *Reliability Engineering and System Safety*, 76(3), 279–285.
- Yin, X.-K., & Sheng, B.-Z. (1987). Some aspects of accelerated life testing by progressive stress. *IEEE Transactions on Reliability*, 36(1), 150–155.
- Zhang, J.-P., & Wang, R.-T. (2009). Reliability life prediction of VFD by constant temperature stress accelerated life tests and maximum likelihood estimation. *Journal of Testing and Evaluation*, 37(4), 316–320.
- Zhang, T., Dwight, R., & El-Akruti, K. (2013). On a Weibull related distribution model with decreasing, increasing and upside-down bathtub-shaped failure rate. In *2013 proceedings annual reliability and maintainability symposium (rams)* (pp. 1–6).
- Zhu, X., Balakrishnan, N., & Zhou, Y. (2020). Exact likelihood-ratio tests for a

Bibliography

simple step-stress cumulative exposure model with censored exponential data.
Methodology and Computing in Applied Probability, 22, 497–509.