

BIBLIOGRAPHY

Abu-Salih, M., Anakesh, N. N. and Ahmed, M. S. (1990) Confidence limits for system steady state availability. *Pakistan Journal of Statistics*, **6**(2), 189-196.

Agarwal, M., Kumar, A. and Garg, S. C. (1986) Stochastic Behavior of a repairable system operating under fluctuating weather. *Microelectronics & Reliability*, Vol. **26**(3), 557-567.

Arora, J. A. (1976) Reliability of a 2-unit priority standby redundant system with preventative maintenance. *IEEE Transactions on Reliability*, Vol. R-**25**, 205-207.

Ascher, H. E. (1968) Evaluation of repairable system reliability using ‘bad-as-old’ concept. *IEEE Transactions on Reliability*, Vol. R-**17**, 103-110.

Aven, T. (1996) Availability analysis of monotone systems. *Reliability and maintenance of complex systems; NATO ASI series, Series F: computer and system sciences*. Springer, Berlin, **154**, 206-223.

Barlow, R. E. (1962) *Repairman problems: Studies in Applied Probability and Management Science*. Stanford University Press, Stanford.

Barlow, R. E. (1984) Mathematical theory of reliability: a historical perspective. *IEEE Transactions on Reliability*, Vol. R-**33**, 16-20.

Barlow, R. E. & Proschan, F. (1965) *Statistical theory of reliability and life testing: probability models*. Holt, Rinehart & Winston, Inc.

Bartlett, M. S. (1954) Processus stochastiques ponctuels. *Ann. Inst H Poincarè*, **14**, 36-60.

Beasley, E. I. M. (1991) *Reliability for engineers*. Hampshire, Macmillan.

Beichelt, F. E. (1997) *Stochastische Prozesse für Ingenieure*. B. G. Teubner, Stuttgart.

Beichelt, F. E. & Fischer, K. (1980) General failure model applied to preventative maintenance policies. *IEEE Transactions on Reliability*, Vol. R-**29**, 39-41.

Birolini, A. (1985) *Lecture notes in Economics and Mathematics systems*. No. **252**, Springer-Verlag, Berlin.

Birolini, A. (1994) *Quality and Reliability of Technical Systems*. Springer-Verlag, New York.

Botha, M. (2000) Some General Measures of Repairable Stochastic Systems. *Ph. D. thesis*, UNISA, South Africa.

Branson, M. H. & Shah, B. (1971) Reliability analysis of a system comprised of units with arbitrary distribution. *IEEE Transactions on Reliability*, Vol. R-**20**, 217-223.

Butterworth, J. A. B. & Nikolaisen, T. (1973) Bounds on the availability function. *Naval Research Logistics Quarterly*, R-**20**, 60-63.

Buzacott, J. A. (1970) Markov approach to finding failure times of repairable systems. *IEEE Transactions on Reliability*, Vol. R-**20**, 60-63.

Chandrasekhar, P. & Natarajan, R. (1994a) Confidence limits for steady state availability of a two-unit standby system. *Microelectronics & Reliability*, Vol. **34**(7), 1249-1251.

Chandrasekhar, P. & Natarajan, R. (1994b) Confidence limits for steady state availability of a parallel system. *Microelectronics & Reliability*, Vol. **34**(11), 1847-1851.

Chandrasekhar, P. & Natarajan, R. (1997) Confidence limits for steady state availability of a system with lognormal operating time and inverse Gaussian repair time. *Microelectronics & Reliability*, Vol. **37**(6), 969-971.

Chandrasekhar, P., Natarajan, R. & Yadavalli, V. S. S. (2004) A study on a two unit standby system with Erlangian repair time. *Asia-Pacific Journal of Operational research*, Vol. **21**, no. 3, 271-277.

Cinlar, E. (1975a) *Introduction to Stochastic Processes*. Englewood Cliffs : Prentice-Hall.

Cinlar, E. (1975b) Markov renewal theory: a survey. *Management Science*, Vol. **21**, 729-752.

Cox, D. R. (1962) *Renewal Theory*. London : Methuen.

Cox, D. R. & Lewis, P. A. W. (1970) *Multivariate point processes*. Proc. 6th Berkeley Symp. Math. Statist. and Prob.

Dhillon, B. S. (1978) On Common-cause failures - Bibliography. *Microelectronics & Reliability*, **20**, 371.

Dhillon, B. S. (1980) On human reliability - Bibliography. *Microelectronics & Reliability*, **18**, 533-535.

Dhillon, B. S. (1981) Unified availability modelling; a redundant system with mechanical, electrical, software, human and common cause failures. *Microelectronics and Reliability*, **21**(5), 655-659.

Dhillon, B. S. (1984) Stochastic models for evaluating probability of system failure due to human error. *Microelectronics & Reliability*, **24**(5), 921-924.

Dhillon, B. S. & Rayapati, S. M. (1985) Reliability evaluation of human operators under stress. *Microelectronics and Reliability*, **25**, 729-751.

EL-Said, K. M. & EL-Sherbeny, M. S. (2005) Comparing of reliability characteristics between two different systems. *Applied Mathematics and Computation*. Available online, 15 June 2005, 1-17.

Feller, W. (1949) Fluctuating theory of recurrent events. *Trans. Amer. Math. Soc.*, Vol. **67**, 98-119.

Feller, W. (1950, 1957) *An Introduction to probability theory and its applications*. Wiley, New York.

Finkelstein, M. S. (1993a) A scale model of general repair. *Microelectronics and Reliability*, Vol. **33**, no. **1**, 41-44.

Finkelstein, M. S. (1993b) On some models of general repair. *Microelectronics and Reliability*, Vol. **33**, no. **5**, 663-666.

Finkelstein, M. S. (1998) A point process stochastic model with application to safety at sea. *Reliability Engineering & System Safety*, **60** N3, 227-234.

Finkelstein, M. S. (1999a) Multiple availability on stochastic demand. *IEEE Transactions on Reliability*. Vol. **48**, No. 1, 19-24.

Finkelstein, M. S. (1999b) Wearing-out of components in a variable environment.

Reliability Engineering and System Safety, Vol. **66**, No. 3, 235-242.

Finkelstein, M. S. (1999c) A point process model for software reliability. *Reliability Engineering and System Safety*, **63** N1, 67-71.

Gaver, D. P. (1964) A probability problem arising in reliability of parallel systems with repair. *IEEE Transactions on Reliability*, R-**12**, 30-38.

Gertsbakh, I. B. (1989) *Statistical Reliability Theory*. New York & Basel : Marcel Dekker.

Gnedenko, B. V. & Ushakov, I. (1995) *Probabilistic Reliability Engineering*. Wiley & Sons, New York.

Gnedenko, Y. K., Belyayev, Y. U. K. & Solov'yev, A. D.(1969) *Mathematical methods of Reliability theory*. Academic Press, New York.

Goel, L. R. & Gupta, R. (1984a) Analysis of a two unit standby system with three modes and imperfect switching device. *Microelectronics and Reliability*, **24**, 425-429.

Goel, L. R. & Gupta, R. (1984b) Availability analysis of a two unit cold standby system with two switching failure modes. *Microelectronics and Reliability*, **24**, 419-423.

Goel, L. R., Gupta, R. & Singh, S. K. (1985) Cost analysis of two-unit priority standby system with imperfect switch and arbitrary distribution. *Microelectronics and Reliability*, Vol. **25**(1), 65-69.

Gray, H. L. & Lewis, T. O. (1967) Confidence interval for the availability rate.

Technometrics, **9**, 465.

Green, A. E. & Bourne, A. J. (1978) *Reliability Technology*. John Wiley & Sons, New York.

Gopalan, M. N. (1975) Probabilistic analysis of a single server n-unit system with (n-1) warm standbys. *Operations Research*, Vol. **23**, 591-595.

Gupta & Bansal (1991) Cost analysis of a three unit standby system subject to random shocks and linearly increasing failure rates. *Reliability Engineering and System Safety*, Vol. **33**, 249-263.

Gupta, S. M., Jaiswal, N.K. & Goel, L. R.(1982) Analysis of two unit standby redundant system under partial failure and pre-emptive repair priority. *International Journal of Systems Science*, (**13**)6, 675-687.

Gupta, S. M., Jaiswal, N.K. & Goel, L. R.(1983) *Microelectronics and Reliability*, Vol. **23**(2), 329-331.

Gupta, S. M., Bajaj and Singh (1986) Cost-benefit analysis of a single server three unit redundant system with inspection, delayed replacement and two types of repair. *Microelectronics and Reliability*, Vol. **26**, 247-253.

Høyland, A. & Rausand, M. (1994) *System Reliability Theory*. John Wiley & Sons, New York.

Huamin, L. (1998) Reliability of a Load-Sharing k-out-of-n: G system: Non-i.i.d. Components with Arbitrary Distributions. *IEEE Transactions on Reliability*, Vol. **47**, No. 3, 279-284.

Jain, S. & Jain, R. K. (1994) Reliability analysis of a Markovian deteriorating system. *Microelectronics and Reliability*, Vol. **34**, No.12, 1939-1941.

Jaiswal, N. K. (1968) *Priority queues*. Academic Press, New York.

Kalpakam, S. Shahul Hameed, M. A. and Nataraja, N. R. (1987) A priority multicomponent system with spares. *Microelectronics and Reliability*, Vol. **27**, 79-85.

Kapur, P. K. & Kapoor, K. R. (1978) Intermittently used redundant system. *Microelectronics and Reliability*, Vol. **17**, 593-596.

Kapoor, K.R. & Kapur, P. K. (1980) First uptime and disappointment time for the joint distribution of an intermittently used system, *Microelectronics and Reliability*, Vol. 20, 891-893.

Kistner, K. P. & Subramanian, R. (1974) Die Zuverlässigkeit eines systems mit redundanten storanfalligen Komponenten und Reparaturmöglichkeiten. *Zeitschrift für Operations Research*, **18**, 117-129.

Klaassen, K. B. & Van Peppen, J. C. L. (1989) *System reliability: Concepts and applications*. Edward Arnold, London.

Kovalenko, I. N., Kuzentsov, N. Yu. and Pegg, Ph. A. (1997) *Mathematical theory in reliability theory of time dependent systems with practical applications*. John Wiley & Sons, New York.

Kumagi, M. (1971) Reliability analysis for systems with repair. *J. Oper. Res. Soc.*, Vol. **14**, 53-71, Japan.

Kumar, A. & Agarwal, M. L. (1980) A review of standby systems. *IEEE Transactions on Reliability*, R-**29**, 290-294.

Kumar, A., Agarwal, M. L. and Garg, S. C. (1986) Reliability analysis of a two-unit redundant system with critical human error, *Microelectronics and Reliability*. Vol. **26**, 867-871.

Kumar, D., Pandey, P. C. and Singh, J. (1991) Process Design for a Crystallization System in the Urea Fertilizer Industry, *Microelectronics and Reliability*, Vol. **31**, 855-859.

Kumar et al (1986)

Leitch, R. D. (1995) *Reliability Analysis for Engineers*, Oxford : Oxford University Press.

Lévy, R. D. (1954) Processus semi-Markoviens. *Proc. Intern. Congr. Math. (Amsterdam)*, **3**, 416-426.

Lie, C. H., Hwang, C. L. & Tillman, F. A. (1977) Availability of Maintained systems: A state-of-art-survey. *AIEE Transactions*, Vol. **9**(3), 247-259.

Lim, J. T. & Lie, H. C. (2000) Analysis of System Reliability with dependent repair modes. *IEEE Transactions on reliability*, **49**(2), 80-84.

Liu, H. (1998) Reliability of a load-sharing k-out-of-n:G system: non-i.i.d. components with arbitrary distributions. *IEEE Transactions on Reliability*, Vol. **47**, No. 3, 279-284.

Lloyd, D. K. & Lipow, M. (1962) *Reliability: Management, Methods and Mathematics*. Prentice-Hall, Englewood Cliffs, NJ.

Masters, B. N. & Lewis, T. O. (1987) A note on the confidence interval for the availability ratio. *Microelectronics and Reliability*, Vol. **27**, 247.

Masters, B. N., Lewis, T. D. and Kolark, W. J. (1992) Confidence interval for the availability for systems with Weibull operating time and lognormal repair time. *Microelectronics and Reliability*, Vol. **2**, 84-99.

Moyal, J.E. (1962) The general theory of stochastic population processes. *Act. Math.*, **108**, 1-31.

Murari, K. & Goel, L. R. (1984) Comparison of two unit cold standby reliability models with three types of repair facilities. *Microelectronics and Reliability*, Vol. **24**, 35-49.

Murari, K. & Muruthachalam, C. (1981) Two-unit parallel system with periods of working and rest. *IEEE Transactions on Reliability*, R-**30**(1), 187-190.

Nakagawa, T. (1974) The expected number of visits to state k before a total system failure of complex system with repair maintenance. *Operations Research*, **22**, 108-116.

Nakagawa, T. & Osaki, S. (1974) Stochastic Behaviour of a 2-unit priority standby redundant system. *INFOR*, **12**, 66-70.

Nakagawa, T. & Osaki, S. (1976) Markov renewal processes with some non-regeneration points and their applications to renewal theory. *Microelectronics and Reliability*, Vol. **15**, 633-636.

Nakagawa, T., Goel, A. L. and Osaki, S. (1976) Stochastic behaviour of an intermittently used system. *R.A.I.R.O.*, vol. **2**, 101.

Natarajan, R. (1980) Stochastic models of standby redundant systems, *Ph D thesis*, Dept. Mathematics, I.I.T., India.

Osaki, S. (1969) System reliability and signal flow graphs, presented at the meeting of the *Operations Research Society of Japan*, May 21-22, Tokyo, Japan.

Osaki, S. (1970a) System reliability analysis by Markov renewal processes. *J. Oper. Res. Soc. Japan*, Vol. **12**, 127-188.

Osaki, S. (1970b) Reliability analysis of a two-unit standby redundant system with priority. *CORSJ*, Vol. R-**25**, 284-287.

Osaki, S. and Nakagawa, T. (1976) Bibliography for reliability of stochastic systems. *IEEE Transactions on Reliability*, Vol. R-**25**, 284-287.

Ozekici, S. (1996) Complex systems in random environments. Reliability and maintenance of complex systems; *NATO ASI series, Series F: computer and system sciences*, Springer, Berlin, **154**, 137-157.

Pierskalla, P & Voelker, A. (1976) A survey of maintenance models: the control of surveillance of deteriorating systems. *Naval Research Logistics Quaterly*, Vol. **23**, No. 3 353-388.

Procter, C. L. & Singh, B. (1975) A three-state system Markov Model. *Microelectronics and Reliability*, Vol. **14**, 463-464.

Pyke, R. (1961a) Markov-renewal processes, definition and preliminary properties. *Annals of Mathematical Statistics*, **32**, 1231-1242.

Pyke, R. (1961b) Markov-renewal processes with finitely many states. *Annals of Mathematical Statistics*, **32**, 1243-1259.

Ramakrishnan, A. (1954) Counters with random dead time. *Phil. Mag. Ser. 7*, **45**, 1050-1052.

Ramakrishnan, A. & Mathews, P. M. (1953) On a stochastic problem relating to counters. *Phil. Mag. Ser. 7*, **44**, 1122-1128.

Rao, C. R. (1973) *Linear Statistical Inference and its Applications*. New York: John Wiley & Sons.

Rau, J. G. (1964) *Optimization and probability in systems engineering*. Princeton, Von Nostrand.

Ravichandran, N. (1979) Reliability analysis of redundant repairable systems. *Ph. D. thesis* in Mathematics, I.I.T., Madras, India.

Ravindran, A., Phillips, D. J. & Solberg, J.J. (1982) *Operational Research – Principles and Practice*, Wiley, New York.

Ross, S. M. (1970) *Applied probability models with optimization applications*. San Francisco: Holden-Day.

Rubenstein, R. (1981) *Simulation and Monte Carlo method*. Wiley, New York.

Sarma, Y.V. S. (1982) Stochastic models of redundant repairable systems. Ph. D. Thesis, *India Institute of Technology, India*.

Scheuer, E. M. (1988) Reliability of a m-out-of-n system when component failure induces higher failure rates in survivors. *IEEE Transactions on Reliability*, Vol. **37**, 3-74.

Sfakianakis, M. E. & Papastavridis, S. G. (1993) Reliability of a general consecutive k-out-of-n:F system, *IEEE Transactions on Reliability*, Vol. **40**, 491-495.

Shao, J. and Lamberson, L. R. (1991) Modelling a shared-load k-out-of-n:G system. *IEEE Transactions on Reliability*, Vol. **40**, 205 -209.

Shooman, M. L. (1968) *Probabilistic reliability – An engineering approach*. New York, McGraw-Hill.

Shi, D. H. & Liu, L. (1996) Availability analysis of a two-unit series system with a priority rule. *Naval Research Logistics Quarterly*, **43**, 1009-1024.

Slutsky, E. (1928) Sur les Fonctions Eventuelles Continues, Integrables et Drivables Dans les sens stochastique. *C.R. Acad. Sci. Paris*, **187**, 878-880.

Smith, W. L. (1955) Regenerative stochastic processes. *Proc. Roy. Soc. London Ser., A* 232, 6-31.

Srinivasan, V. S. (1966) The effect of standby redundancy in systems failure with repair maintenance. *Operations Research*, **14**, 1024-1036.

Srinivasan, S. K. (1971) Stochastic point processes and statistical physics. *J. Math. Psy. Sci.*, **5**, 291-316.

Srinivasan, S. K. (1974) Stochastic point processes and their applications. London: Griffen & Co. Ltd.

Srinivasan, S. K. & Bhaskar, D. (1979a) Probabilistic analysis of intermittently used systems. *J. Math. Psy. Sci.*, **13**, 91-105.

Srinivasan, S. K. & Bhaskar, D. (1979b) Analysis of intermittently used redundant systems with a single repair facility. *J. Math. Psy. Sci.*, **13**, 351-366.

Srinivasan, S. K. & Bhaskar, D. (1979c) Analysis of intermittently used two dissimilar unit system with single repair facility. *Microelectronics and Reliability*, Vol. **19**, 247-252.

Srinivasan, S. K. and Subramanian, R. (1980) Probabilistic analysis of redundant systems, *Lecture notes in Economics and Mathematical Systems*, no. **175**, Springer-Verlag, Berlin.

Subba Rao, S. & Natarajan, R. (1970) Reliability with standbys, *Opsearch*, Vol. **7**, 23-26.

Subramanian, R. & Sarma, Y. V. S. (1987) Stochastic model of multiple unit system. *Microelectronics and Reliability*, Vol. **27** (25), 351-359.

Subramanian, R., Venkatakrishnan, K. S. and Kistner, K. P. (1976) Reliability of repairable systems with standby failure, *Operations Research*, **24** 169-176.

Takács, L. (1956) On a probability problem arising in the theory of counters. *Proc. Camb. Phil. Soc.*, **52**, 488-498.

Takács, L. (1957) On certain problems concerning the theory of counters. *Act. Math. Hung.*, **8** 127-138.

Thomson, M. (1966) Lower confidence limits and a test of hypothesis for a system availability. *IEEE Transactions on Reliability*, **R-15**, 32-36.

U.N. Fertiliser Manual (1967) *ST/CID/15*, International Fertilizer Centre.

Venkatakrishnan, K. (1975) Probabilistic analysis of repair redundant systems. *Ph. D thesis* in Mathematics, I.I.T., Madras, India.

Villemeur, A. (1992) *Reliability, Availability, Maintainability and Safety Assessment*, Chichester: Jon Wiley & Sons.

Wackerly, D. D. & Mendenhall III, W. and Scheaffer, R. L. (2002) *Mathematical Statistics with applications*. Duxbury, Thomson Learning.

Watson, H. W. & Galton, F. (1874) On the probability of extinction of families, *J. Anthropol. Inst. Great Britain and Ireland*, 4, 138-144.

Wold, H. (1948) Sur les processus stationnaires ponctuels, *Colloques Internationaux, C.N.R.S.*, **13**, 75-86.

Yadavalli, V. S. S. & Bekker, A. (2005) Bayesian study of a two-component system with common-cause shock failures. *Asia-Pacific Journal of Operational Research*, **22**(1), 105-119.

Yadavalli, V. S. S. & Hines, H. P. (1991) Joint distribution of uptime and disappointment time of an intermittently used parallel system, *International Journal of Systems Science*, **21**(12), 2613-1620.

Yadavalli, V. S. S., Bekker, A., Mostert, P. J. and Botha. M. (2001) Bayesian estimation of the stationary rate of disappointment of a model of a two unit intermittently used system. *Pakistan Journal of Statistics*, Vol. **17** (2), 117-125.

Yadavalli, V. S. S., Botha, M. & Bekker, A. (2002a) Asymptotic confidence limits for the steady state availability of a two-unit parallel system with ‘preparation time’ for the repair facility. *Asia-Pacific Journal of Operational Research*, Vol. **19**(2), 249-256.

Yadavalli, V. S. S., Botha, M. & Bekker, A. (2002b) Confidence limits for the steady state availability of a system with ‘rest period’ for the repair facility. *Electronic Modelling*, **24**(5), 99-103.

Yadavalli, V. S. S., Bekker, A. & Pauw, J. (2005) Bayesian study of a two-component system with common-cause shock failures. *Asia-Pacific Journal of Operational Research*. Vol. **22**(1), 105-119.

Yearout, R. D., Reddy, P. & Grosh, D. L. (1986) Standby redundancy in reliability – a review. *IEEE Transactions on Reliability*, R **35**, 285-292.

Zacks, S. (1992) *Introduction to Reliability Analysis*, Berlin: Springer-Verlag.

Zhang, Y. L. & Lam, Y. (1998) Reliability of consecutive k-out-of-n: G repairable system. *International Journal of Systems Science*, Vol. **29**(12), 1375-1379.