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 Behaviour 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 Poinccare, 14, 36-60.

Beichelt, F. E. (1997**)** Stochastische Prozesse fur Ingenieure. B. G. Teubner, Stuttagart**.**

Beichelt, F. E. & Fischer, K. (1980) General failure model applied to preventive 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.

Botha, M. (2000) Some General Measures of Repairable 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, 271-223.

Buzzacott, 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 & 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.

Chow, David, K. (1971) Reliability of two items in sequences with sensing and switching, *IEEE Trans. Rel.,* R-20, 254-256.

Cinlar, E (1995) Markov Renewal theory: A survey; management Science; Vol.21, 729-752.

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

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.

Erasmus, G (2005)

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

Finkelstein, M. S (1993a) A scale model 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.
Gaver, D.P. (1963) Time to failure and availability of parallel systems with repair, *IEEE Trans 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, B.V., Belyayev, YU. K & Solovyev, A.D (1969) Mathematical methods of Reliability theory, Academic Press, New York.

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

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

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.

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.

Kovalenko, I. N., Kuzentsoy, 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. Re. 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 Crystallazation System in the Urea Fertilizer Industry, *Microelectronics and Reliability*. Vol.31, 855-859.

Kumar et al (1986)

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

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.

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. & Muruthachalan, C. (1981) Two-unit parallel system with periods of working and rest. *IEEE Transactions on Reliability*, R-3091), 187-190.

Muller, M.A.E. (2005) Probabilistic analysis of repairable redundant systems; Ph D thesis, Univ. of Pretoria, South Africa.

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 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 Quarterly*, Vol.23, No. 3, 353-388.

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. & Matthews, 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 Norstrand.

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

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.

Sander, G.H. (1963) System reliability Engineering ; Englewood Cliffs, New Jersey, Prentice Hall.

Sarma, Y.V.S. (1982) Stochastic models of redundant repairable systems, Ph d thesis, I.I.T, MADRAS, INDIA.

Scheuer, E. M. (1988) Reliability of a m-out-of-n system when component failure induces higher failures 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 Lambersen, 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.

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.

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 Kisterner, K. P. (1976) Reliability of repairable systems with standby failure, *Operations Research*, 24, 169-176.

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

Van Schoor, C.de.W. (2005) SUPPLY CHAIN MANAGEMENT- A STUDY OF INVENTORY MODELLING; Ph D thesis, Univ. of Pretoria, south Africa.

Villermeur, A. (1992) Reliability, Availability, Maintainability and Safety Assessment, Chichester: John Wiley & Sons.

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

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 systems, *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) A symptotic 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.

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.

Doyan, L. R. & Berssenbrugge, M. W. (1968) Solving complex reliability models by computer. *Proc. IEEE Annu. Symp.Rel,* 431-438.

Parzen, E. (1962) *Stochastic Processes*. Holden-Day, U.S.A.

Kingman, **J.F.C.** (1964) The stochastic theory of regenerative events, *Z. Warhscheinlichkeitstheorie*, 2, 180-224.

Branson, M.H and Shah, B. (1971) Reliability analysis of a system comprised of units with arbitrary distribution*, IEEE Trans. Rel.*, Vol.20, 217-223.

Khalil, Z.S. (1977) On the reliability of a two-unit redundant system with random switchover and two-types of repair, *Micro.Rel.*, Vol.16, 159-160.

Gopalan, M.N and Marathe, K.Y. (1978) Availability analysis of 1-server n-unit system with (n-1) warm standbys, *Opers. Res.*, Vol.23, 591-595.

Kalpakam, S. and Shahul Hameed, M.A (1980) General two-unit redundant system with random delays, *IEEE Trans.Rel.*, Vol.R-29, 86-87.

Prakash, S and Kumar, S. (1970) Stochastic behaviour of a standby redundant complex system with imperfect switching over devices, Computing, 5, 136-143.

Harris, T. E. (1936) The theory of branching processes, Springer-Verlag, Berlin.

Bellman, R. E and Harris, T. E. (1948) On the theory of age dependent stochastic branching processes, *Proc. Nat. Acad.Sci. (USA*), Vol. 34, 601-604.

Khintchine, A. Y. (1955) Mathematical methods in the theory of queuing, Griffin, London.