

REFERENCES¹

(N.B. The numbers in the curly brackets at the end of each reference indicate the pages of this thesis where the reference has been used.)

ABRAMOWITZ, M. & STEGUN, I.A. (1965) "Handbook of Mathematical Functions". Dover; New York. {4}

ACZÉL, J. (1972) "On Characterization of Poisson Distributions".
J. Appl. Prob., 9, 852-856. {21}

ACZÉL, J. (1975a) "General Solution of a Functional Equation Connected with a Characterization of Statistical Distributions". Statistical Distributions in Scientific Work. Vol. 3, 47-56, Ed. G.P. Patil, S. Kotz, J.K. Ord. D. Reidel Publishing Company². {25}

ACZÉL, J. (1975b) "On Two Characterizations of Poisson Distribution".
Abn. Math. Sem. Univ. Hamburg, 44, 91-100. {190}

APPEIL ET KAMPÉ DE FÉRIET (1926) "Fonctions Hypergeometriques"
Gauthier-Villars. Paris. {6}

CHATFIELD, C. & THEOBALD, C.M. (1973) "Mixtures and Random Sums".
The Statistician, 22, (No.3), 281-285. {25}

CHATTERJI, S.D. (1963) "Some Elementary Characterizations of the Poisson Distribution". Am. Math. Month. 70, 958-964.
{23,189}

¹ A list of additional REFERENCES appears on page 251.

² The place of publication of this book is Dordrecht-Holland.

- CONSUL, P.C. (1974) "Some New Characterizations of Discrete Lagrangian Distributions". Statistical Distributions in Scientific Work. Vol.3 Characterizations and Applications, 279-290. Ed. G.P. Patil, S. Kotz, J.K. Ord. D. Reidel Publishing Company, Dordrecht-Holland. {20,24}
- CONSUL, P.C. (1975) "A Characterization of Lagrangian Poisson and Quasi-Binomial Distributions". Communications in Stats. 4(6), 555-563. {20,24}
- CONSUL, P.C. & JAIN, G.C. (1973) "A Generalization of the Poisson Distribution". Technometrics, 15 (NO.4), 791-799. {20}
- DABONI, L. (1959) "A Property of Poisson Distribution". Boll. Un. Mat. Ital. 14, 318-320. {25}
- DACEY, M.F. (1972) "A Family of Discrete Probability Distributions Defined by the Generalized Hypergeometric Series". Sankhyā (B), 34, 243-250. {6}
- ERDELYI (1953) "Higher Transcendental Functions". Vol. I. McGraw-Hill Book Company, New York, Toronto, London. {4,6}
- GANI, J. & SHANBHAG, D.N. (1974) "An Extension of Raikov's Theorem Desirable from a Result in Epidemic Theory". Zeit. Wahrscheinlichkeitstheorie verw. Gebiete, 29, 29-33. {25}
- GOVINDARAJULU, Z. & LESLIE, R.T. (1970) "Elementary Characterizations of Discrete Distributions". Random Counts in Models and Structures - Random Counts in Scientific Work, Vol. 1 (Ed. G.P. Patil), The Penn. State University Press, 77-96. {23}

- GUPTA, R.C. (1974) "Mixtures on Some Discrete Distributions".
South Afr. Statist. J., 8, 83-92. {25}
- GURLAND, J. (1957) "Some Interrelations Among Compound and
Generalized Distributions". Biometrika, 44, 265-268.
{25}
- GURLAND, J. (1958) "A Generalized Class of Contagious Distributions".
Biometrics, 14, 229-249. {9,25,150,226}
- HAIGHT, F.A. (1967) "Handbook of the Poisson Distribution".
Wiley and Sons Ltd. New York. {15,203,204,206,208,216}
- HAIGHT, F.A. (1972) "The Characterization of Discrete Distributions
by Conditional Distributions". Zastosowania Matematyki,
Applicationes Mathematicae 13 (2), 207-213. {24}
- HALD, A. (1960) "The Compound Hypergeometric Distribution and a
System of Single Sampling Inspection Plans Based on
Prior Distributions and Costs". Technometrics, 2 (No.3),
275-340. {24}
- JANARDAN, K.G. (1973) "A Characterization of Multivariate Hyper-
geometric and Inverse Hypergeometric Models".
Unpublished Manuscript - available at Sangamon State
University - Mathematical System Program. {24}
- JANARDAN, K.G. (1974) "A Characterization of Multinomial and Negative
Multinomial Distributions". Scand. Actuarial J. 57,
58-62. {23,198,200}
- JANARDAN, K.G. (1975) "Characterizations of Certain Discrete
Distributions". Statistical Distributions in Scientific
Work. Vol. 3, 359-364, by G.P. Patil, S. Kotz, J.K. Ord.
D. Reidel Publishing Company. {23}

- JOHNSON, N.L. & KOTZ, S. (1969) "Discrete Distributions".
Houghton Mifflin Co. Boston, U.S.A. {15}
- KAGAN, A.M. LINNIK, Yu.V. and RAO, C.R. (1973) "Characterization
Problems in Mathematical Statistics". John Wiley and
Sons Ltd. New York. {2,17,26,31,43}
- KEMP, A.W. (1968a) "A Wide Class of Discrete Distributions and the
Associated Differential Equations". Sankhyā,
The Indian Journal of Statistics (A), 30.(4), 401-410.
{6,23}
- KEMP, A.W. (1968b) "A Limited Risk cPp". Skand. Aktuar Tidskr.,
51, 198-203. {156,226}
- KEMP, A.W. (1974a) "On a Characterization of G.H.F. Distributions".
Statistics Reports and Preprints No.13, School of
Mathematics, University of Bradford. {23}
- KEMP, A.W. (1974b) "Conditionality Characterization for Certain
Discrete Distributions". Statistics Reports and Preprints
No.18, School of Mathematics, University of Bradford. {23}
- KEMP, A.W. & KEMP, C.D. (1975) "Models for Gaussian Hypergeometric
Distributions". Statistical Distributions in Scientific
Work, Vol. 1, 31-40 (Eds. G.P. Patil et al). D. Reidel
Publishing Company. {23}
- KEMP, A.W. & KEMP, C.D. (1956) "Generalized Hypergeometric
Distributions". J. Roy. Stat. Soc., (B), 18, 202-211. {15}
- KORWAR, R.M. (1975) "On Characterizing Some Discrete Distributions by
Linear Regression". Communication in Statistics 4 (12),
1133-1147. {22}

- KOTZ, S. (1974) "Characterizations of Statistical Distributions:
A Supplement to Recent Surveys". Int. Stat. Rev.
42 (No.1), 39-65. {2}
- KRISHNAJI, N. (1970) "A Characteristic Property of the Yule
Distribution". Sankhyā Ser. A, 32, 343-346. {24}
- KRISHNAJI, N. (1974) "Characterization of Some Discrete Distributions
Based on a Damage Model". Sankhyā Ser. A, 36, 204-213. {24}
- KUMAR, A. & CONSUL, P.C. (1976) "Some Simple Theorems on the
Characterizations of Common Discrete Distributions".
Research Paper No.324, November 1976, Department of
Maths. and Stats., University of Calgary. {21}
- LAHA, R.G. & LUCACS, E. (1964) "Applications of Characteristic
Functions". Griffin monographs, No.14, London, England.
{2}
- LAMBERTI, J. (1959) "Problem 4841". Am. Math. Mon. 66, 317. {25}
- LUCACS, E. (1956) "Characterization of Populations by Properties of
Suitable Statistics". Proc. of the Third Berkeley
Symposium on Math. Stat. and Prob., University of
California Press, Berkeley, 195-214. {2}
- LUCACS, E. (1960) "Recent Developments in the Theory of Characteristic
Functions". Proc. of the Fourth Berkeley Symposium of
Math. Stat. and Prob., University of California Press,
Berkeley, 307-335. {2}
- LUCACS, E. (1960-61) "On the Characterization of a Family of
Populations". Annales Universitatis Scientiarum
Budapestinensis, Sectio Mathematica, Vol.3-4, 159-175. {2}

- LUCACS, E. (1965) "Characterization Problems for Discrete Distributions". *Sankhyā Ser. A*, 27, 231-240.
(Also in *Classical and Contagious Discrete Distributions*, 65-74, Stat. Pub. Soc. Calcutta and Pergamon Press). {2}
- MEDHI, J. (1975) "On the Convolutions of Left-Truncated Generalized Negative Binomial and Poisson Variables". *Sankhyā Ser. B*, Part 3, 293-299. {25}
- MENON, M.V. (1966) "Characterization Theorems for Some Univariate Probability Distributions". *J. Roy. Stat. Soc. (B)*, 28, 143-145. {23}
- MOOD, A.M. (1943) "On the Dependence of Sampling Inspection Plans upon Population Distributions". *Ann. Math. Stat.*, 14, 415-425. {24}
- MORAN, P.A.P. (1951) "A Mathematical Theory of Animal Trapping". *Biometrika* 38, 307-311. {25}
- MORAN, P.A.P. (1952) "A Characteristic Property of the Poisson Distribution". *Proc. Camb. Phil. Soc. Math. Phys. Sci.* 48, 206-207. {23,59,189,194,195,211}
- NEVILL, A.M. & KEMP, C.D. (1975) "On Characterizing the Hypergeometric and Multivariate Hypergeometric Distributions". *Statistical Distributions in Scientific Work*, Vol. 3, 353-358, (Eds. G.P. Patil, S. Kotz, J.K. Ord). D. Reidel Publishing Company. {24}
- ORD, K. (1975) "A Characterization of a Dependent Poisson Distribution". *Statistical Distributions in Scientific Work*, Vol. 3, 291-298, (Eds. G.P. Patil, S. Kotz, J.K. Ord) D. Reidel Publishing Company. {21}

- OTTAVIANI, G. (1957) "In una proprieta di un sistema di due variabili causali sequentila legge di Poisson degli eventi vari". Atti Accad. Naz. Lincei, Rend. Cl. Sci. Fis. Mat. Natur. Ser. 1, Vol. 23, Series VIII, 230-232. {25}
- PANARETOS, J. (1976) "On Characterizing Some Discrete Distributions, Using an Extension of the Rao-Rubin Theorem". Stat. Reports & Preprints, No. 25, August 1976, School of Mathematics, University of Bradford. {46,48,51,53,55,60,64}
- PATIL, G.P. (1962) "Certain Properties of the Generalized Power Series Distribution". Ann. Inst. Statist. Math., 14, 179-182. {22}
- PATIL, G.P. & JOSHI, S.W. (1968) "A Dictionary and Bibliography of Discrete Distributions". Oliver and Boyd, Edinburgh. {15}
- PATIL, G.P. & RAO, C.R. (1976) "The Weighted Distributions and Their Applications". "Personal Communication". {18,226}
- PATIL, G.P. & RATNAPARKHI, M.V. (1975) "Problems of Damaged Random Variables and Related Characterizations". Statistical Distributions in Scientific Work, Vol. 3, 255-270, (Eds. G.P. Patil, S. Kotz, J.K. Ord) D. Reidel Publishing Company. {19,20,22,43,47,50,103,200}
- PATIL, G.P. & RATNAPARKHI, M.V. (1977) "Invariance of Linearity of Regression and Related Characterizations of Some Classical Discrete Distributions". Commun. Statist. Theor. Meth. A6 (2), 167-174. {22}

- PATIL, G.P. & SESHADRI, V. (1964) "Characterization Theorems for Some Univariate Probability Distributions". J. Roy. Stat. Soc. (B), 26, 286-292. {19,23,43,47,63,110,189, 193,195,198}
- RAIKOV, D.A. (1937) "On the Decomposition of the Poisson Law". DAN SSSR, 14 (No.1), 8-11. {46,71}
- RAMACHANDRAN, B. (1961) "On the Decompositions of Certain Random Variables". Publications de L'Institut de Statistique de L'Université de Paris, 10, 267-273. {103}
- RAMACHANDRAN, B. (1967) "Advanced Theory of Characteristic Functions". Statistical Publishing Society, Calcutta. {103}
- RAO, C.R. (1963) "On Discrete Distributions Arising out of Methods of Ascertainments". Classical & Contagious Discrete Distributions, 320-332. (Also reprinted in Sankhyā A, 25, 311-324. {2,16,18,26,147,159,202,203,217,226}
- RAO, C.R. & RUBIN, H. (1964) "On a Characterization of the Poisson Distribution". Sankhyā Series A, 26, 295-298. {2,18,20,21,26,31,36,185,187,189,193,202}
- RATNAPARKHI, M.V. (1975) "Certain Damage Models and Related Characterizations of Statistical Distributions". Ph.D. Thesis, The Pennsylvania State University. {13,20,21}
- REVANKAR, N.S., HARTLEY, M.J. & PAGANO, M. (1974) "A Characterization of the Pareto Distribution". Annals of Statistics, 2 (No.3) 599-601. {18}
- SAMANIEGO, F.J. (1976) "A Characterization of Convoluted Poisson Distributions with Applications to Estimation". J. of the Amer. Stat. Assoc., 71 (354) (Theory and Methods Sections), 475-479. {11,25}

- SESHADRI, V. & PATIL, G.P. (1963) "A Characterization of a Bivariate Distribution by the Marginal and the Conditional Distribution of the Same Component". Ann. Inst. Statist. Math. Tokyo, 15 (3), 215-221. {24}
- SHANBHAG, D.N. (1974) "An Elementary Proof for the Rao-Rubin Characterization Theorem". J. Appl. Prob. 11, 211-215. {13,21,26,27,36,190}
- SHANBHAG, D.N. (1976) "An Extension of the Rao-Rubin Characterization of the Poisson Distribution". Personal Communication. (To appear in J. App. Prob., 14 No.3.) {2,7,20,40,41,44,45,66,69,189,193,212}
- SHANBHAG, D.N. & BASAWA, I.V. (1974) "On a Characterization Property of the Multinomial Distribution". Trabajos de Estadistica, 25, 109-112. {143}
- SHANBHAG, D.N. & CLARK, R.M. (1972) "Some Characterizations for the Poisson Distribution Starting with a Power-Series Distribution". Proc. Camb. Phil. Soc. 71, 517-522. {22}
- SHANBHAG, D.N. & RAJAMANNAR, G. (1974) "Some Characterizations of the Bivariate Distribution of Independent Poisson Variables". Aust. J. Stat., 16 (2), 119-125. {13}
- SKIBINSKY, M. (1970) "A Characterization of Hypergeometric Distributions". J. Amer. Statist. Assoc., 65, (No.330), 926-929. {24}
- SLATER, L.J. (1966) "Generalized Hypergeometric Functions". Cambridge University Press. {6}

- SRIVASTAVA, R.C. & SINGH, J. (1975) "On Some Charcterizations of the Binomial and Poisson Distributions Based on a Damage Model". Statistical Distributions in Scientific Work. Vol. 3, 271-278, (Eds. G.P. Patil, S. Kotz, J.K. Ord), D. Reidel Publishing Company. {19,21,34,192}
- SRIVASTAVA, R.C. & SRIVASTAVA, A.B.L. (1970) "On a Characterization of Poisson Distributions". J. Appl. Prob. 7, 497-501. {19,33,34,36,44,72,193,194}
- SVENSSON, A. (1969) "Some Remarks on the Moran-Chatterji Theorem". Dept. of Statistics, Stockholm University. {24}
- SVENSSON, A. (1975) "Some Characterizations of the Multiplicative Biisson Model". National Swedish Road and Traffic Research Institute. (Personal Communication.) {25}
- TALWALKER, S. (1970) "A Characterization of the Double Poisson Distribution". Sankhyā, The Indian J. of Stats., A32, 265-270. {13,20,21,36,38,194,197}
- TALWALKER, S. (1975) "Models in Medicine and Toxicology". Statistical Distributions in Scientific Work, Vol.2, 263-274, Model Building and Model Selection. (Eds. G.P. Patil, S. Kotz, J.K. Ord), D. Reidel Publishing Company. {18,21}
- TEICHER, H. (1954a) "On the Convolution of Distributions". Ann. of Math. Stat., 25, 775-778. {25}
- TEICHER, H. (1954b) "On the Multivariate Poisson Distribution". Skand. Aktuarietidskr, 37, 1-9. {71}
- TEICHER, H. (1961) "Identifiability of Mixtures". Ann. Math. Stat., 32, 244-248. {25}

- UPPULURI RAO, V.R. & BLOT, W.J. (1970) "A Probability Distribution Arising in a Riff-Shuffle". Random Counts in Scientific Work, I, 23-46, (Ed. G.P. Patil) Penn. State University Press. {4}
- VAN DER VAART, H.R. (1972) "A Note on a Functional Equation for the Generating Function of the Poisson Distribution". Sankhyā The Indian J. of Stats. (A), 34, 191-193. {21}
- WANG, P.C.C. (1975) "Characterizations of the Poisson Distributions Based on Random Splitting and Random Expanding". Discrete Mathematics, 13, 85-93. {192}
- ZIPPIN, C. (1956) "An Evaluation of the Removal Method of Estimating Animal Populations". Biometrics, 12, 163-189. {25}

ADDITIONAL REFERENCES

- AHMED, M.S. (1961) "On Locally Most Powerful Boundary Randomized Similar Test for the Independence of two Poisson Variables". Ann. Math. Statist., 32, 809-827. {211}
- ASHFORD, J. (1972) "Patient Contacts in General Practice in the National Health Service". The Statistician, 21, 265-289. {214}
- BARTKO, J.J. (1961) "The Negative Binomial Distribution: A Review of Properties and Applications". Virg. J. of Sci. 12, 18-37. {214,218}
- BATES, G.E. & NEYMAN, J. (1952) "Contributions to the Theory of Accident Proneness". Univ. of California Publications, 1 (No.10), 215-275. {223}
- BHATTACHARYA, S.K. & HOLLA, M.S. (1965) "On a Discrete Distribution with Special Reference to the Theory of Accident Proneness". J. Amer. Statist. Assoc., 60, 1060-1066. {227}
- CHATFIELD, C. & GOODHART, G.J. (1970) "The Beta-Binomial Model for

- Consumer Purchasing Behaviour". *Appl. Stat.*, 19, 240-250.
{225,228}
- FALECHINI, L. (1949) "Sullo Schema Generale del Problema delle Prove Ripetute con Probabilità Indipendenti". *Rivista Italiana di Demografia e Statistica*, 3, 37-59. {204}
- FELLER, W. (1957) "An Introduction to Probability Theory and Its Applications". Second Edition, 1, John Wiley & Sons, New York. {204,205} .
- FRIEDMAN, L. (1956) "A Competitive-Bidding Strategy". *Operations Research*, 4, 104-112. {206}
- FURRY, W. (1937) "On Fluctuation Phenomena in the Passage of High Energy Electrons Through Lead". *Phys. Rev.* 52, 569-581.{214}
- GREENWOOD, M. & YULE, G.U. (1920) "An Inquiry into the Nature of Frequency Distributions Representative of Multiple Happenings with Particular Reference to the Occurrence of Multiple Attack of Disease or Repeated Accidents". *J. Roy. Soc.*, 83, 255-279.{213,225}
- GRIFFITHS, D.A. (1973) "Maximum Likelihood Estimation for the Beta Binomial Distribution and an Application to the Household Distribution of the Total Number of Cases of a Disease". *Biometrics*, 29, 637-648. {212,219}
- JANARDAN, K.G. (1973b) "Chance Mechanisms for Multivariate Hypergeometric Models". *Sankhyā (A)*, 35, 465-478. {224}
- KEMP, C.D. (1973) "An Elementary Ambiguity in Accident Theory". *Accid. Anal. and Prev.* 5, 371-373. {226}
- KEMP, C.D. & KEMP, A.W. (1956) "The Analysis of Point Quadrat Data". *Aust. J. of Bot.*, 4 (No.2), 167-174. {227}
- KENDALL, M.G. (1949) "Stochastic Processes and Population Growth". *J. Roy. Statist. Soc. (B)*, 11, 230-264. {214}
- KENDALL, M.G. (1961) "Natural Law in the Social Sciences". *J. Roy. Statist. Soc. (A)*, 124, 1-16. {205}

- NEYMAN, J. (1939) "On a New Class of Contagious Distributions Applicable in Entomology and Bacteriology". *Ann. Math. Stat.*, 10, 35-57. {227}
- PARZEN, E. (1962) "Stochastic Processes". Holden-Day, San Francisco. [207,209]
- PLACKETT, R.L. (1953) "The Truncated Poisson Distribution". *Biometrics*, 9, 485-488. {217}
- QUENOUILLE, M.H. (1949) "A Relation Between the Logarithmic, Poisson and Negative Binomial Series". *Biometrics*, 5, 162-164. {214}
- YULE, G. U. (1924) "A Mathematical Theory of Evolution Based on the Conclusions of Dr J.C. Willis, FRS". *Philosophical Transactions of the Roy. Soc.* 213, 21-87. {214}