Extreme values and rare events: Some references

Textbooks and Monographs

Dmitrii Silvestrov. Perturbed semi-Markov type processes I—limit theorems for rare-event times and processes. *Springer, Cham,* 2022. xvii+401 pp.

Amarjit Budhiraja, Paul Dupuis. Analysis and approximation of rare events. Representations and weak convergence methods. Probability Theory and Stochastic Modelling, 94. *Springer*, *New York*, 2019. xix+574 pp

Michael Falk. Multivariate extreme value theory and D-norms. Springer Series in Operations Research and Financial Engineering. *Springer, Cham,* 2019. x+241 pp.

Mohammad Ahsanullah. Extreme value distributions. Atlantis Studies in Probability and Statistics, 8. *Atlantis Press, Paris*, 2016. viii+137 pp.

Serguei Y. Novak. Extreme value methods with applications to finance. Monographs on Statistics and Applied Probability, 122. *CRC Press, Boca Raton, FL,* 2012. xxvi+373 pp.

Michael Falk, Jürg Hüsler, Rolf-Dieter Reiss. Laws of small numbers: extremes and rare events. **Third**, revised and extended edition. *Birkhäuser/Springer Basel AG, Basel*, 2011. xvi+509 pp.

Sidney I. Resnick. Extreme values, regular variation and point processes. Reprint of the 1987 original. Springer Series in Operations Research and Financial Engineering, *Springer, New York,* 2008. xiv+320 pp.

Rolf-Dieter Reiss, Michael Thomas. Statistical analysis of extreme values with applications to insurance, finance, hydrology and other fields. **Third edition**. With 1 CD-ROM (Windows). *Birkhäuser Verlag*, *Basel*, 2007. xviii+511 pp.

Laurens de Haan, Ana Ferreira. Extreme value theory. An introduction. Springer Series in Operations Research and Financial Engineering. *Springer, New York,* 2006. xviii+417 pp.

Simonis, Adilson and Peixoto, Cláudia Tópicos em processos estocásticos: eventos raros, tempos exponenciais e metaestabilidade. (Portuguese) [Topics in stochastic processes: rare events, exponential times and metastability] Publicações Matemáticas do IMPA. [IMPA Mathematical Publications] 25º Colóquio Brasileiro de Matemática. [25th Brazilian Mathematics Colloquium] *Instituto Nacional de Matemática Pura e Aplicada (IMPA), Rio de Janeiro*, 2005. x+146 pp.

Enrique Castillo, Ali S. Hadi, N. Balakrishnan, José María Sarabia. Extreme value and related models with applications in engineering and science. Wiley Series in Probability and Statistics. *Wiley-Interscience [John Wiley & Sons]*, *Hoboken*, *NJ*, 2005. xiv+362 pp.

James Antonio Bucklew. Introduction to rare event simulation. Springer Series in Statistics. *Springer-Verlag, New York,* 2004. xii+260 pp.

Stuart Coles. An introduction to statistical modeling of extreme values. Springer Series in Statistics, *Springer-Verlag London*, *Ltd.*, *London*, 2001. xiv+208 pp.

Samuel Kotz, Saralees Nadarajah. Extreme value distributions. Theory and applications. *Imperial College Press, London,* 2000. viii+187 pp.

Valery B. Nevzorov. Records: Mathematical Theory. *American Mathematical Society, Providence, RI,* 2001, x+164 pp.

Paul Embrechts, Claudia Kluppelberg, Thomas Mikosch. Modelling Extremal Events: for Insurance and Finance. *Springer-Verlag, Berlin*, 1997, xvi+645 pp.

Vladimir Kalashnikov. Geometric sums: bounds for rare events with applications [to] risk analysis, reliability, queueing. Mathematics and its Applications, 413. *Kluwer Academic Publishers Group, Dordrecht*, 1997. xviii+265 pp.

Liu, Guang and Zhong Tu. fenxi yu jizhi wenti. (Chinese) [Convex analysis and extreme value problems] Gaodeng Xuexiao Shiyong Jiaocai. [Trial Educational Materials for Advanced Schools] *Gaodeng Jiaoyu Chubanshe (Higher Education Press)*, *Beijing*, 1991. vi+320 pp.

Pfeifer, Dietmar. Einführung in die Extremwertstatistik. (German) [Introduction to the statistics of extreme values] Teubner Skripten zur Mathematischen Stochastik. [Teubner Texts on Mathematical Stochastics] *B. G. Teubner, Stuttgart*, 1989. viii+199 pp.

Enrique Castillo. Extreme value theory in engineering. Statistical Modeling and Decision Science. *Academic Press, Inc., Boston, MA,* 1988. xvi+389 pp.

Janos Galambos. Asymptotic Theory of Extreme Value Statistics. John Wiley & Sons, New York-Chichester-Brisbane, 1978, xiv+352 pp.

Edited Volumes and Technical Reports

Extreme value theory with applications to natural hazards—from statistical theory to industrial practice. Edited and translated from the French by Nicolas Bousquet and Pietro Bernardara. *Springer, Cham,* 2021, xxii+481

Pioneering works on extreme value theory—in honor of Masaaki Sibuya. Edited by Nobuaki Hoshino, Shuhei Mano and Takaaki Shimura. SpringerBriefs in Statistics. JSS Research Series in Statistics. Springer, Singapore, 2021. ix+134 pp

Extreme value modeling and risk analysis. Methods and applications. Edited by Dipak K. Dey and Jun Yan. *CRC Press, Boca Raton, FL,* 2016. xx+520 pp

Advances in regression, survival analysis, extreme values, Markov processes and other statistical applications. Selected papers from the 17th congress of the Portuguese Statistical Society held in Sesimbra, September 30–October 3, 2009. Edited by João Lita da Silva, Frederico Caeiro, Isabel Natário, Carlos A. Braumann, Manuel L. Esquível and João Tiago Mexia. Studies in Theoretical and Applied Statistics. Selected Papers of the Statistical Societies. *Springer, Heidelberg,* 2013. xviii+471 pp.

Rare event simulation using Monte Carlo methods. Edited by Gerardo Rubino and Bruno Tuffin. *John Wiley & Sons, Ltd., Chichester,* 2009. x+268 pp.

Puri, Madan Lal. Probability theory and extreme value theory. Edited by Peter G. Hall, Marc Hallin and George G. Roussas. Madan Lal Puri Selected Collected Works, 2. *VSP*, *Utrecht*, 2003. xii+743 pp.

Extreme value theory and applications. Selected papers from the Thirteenth Franco-Belgian Meeting of Statisticians held at the Université de Lille I, Villeneuve d'Ascq, November 18–20, 1992. Edited by George Haiman. J. Statist. Plann. Inference 45 (1995), no. 1-2. *Elsevier Science B.V., Amsterdam*, 1995. pp. 1–312.

Extreme value theory and applications. Vol. 1. Proceedings of the Conference on Extreme Value Theory and Applications, Gaithersburg, Maryland, 1993. Edited by Janos Galambos, James Lechner and Emil Simiu. *Kluwer Academic Publishers, Dordrecht*, 1994. xiv+519 pp

Perfekt, Roland. On extreme value theory for stationary Markov chains. Dissertation, University of Lund, Lund, 1993. *University of Lund, Department of Mathematical Statistics, Lund,* 1993. ii+81 pp.

Extreme value theory. Proceedings of the conference held in Oberwolfach, December 6–12, 1987. Edited by J. Hüsler and R.-D. Reiss. Lecture Notes in Statistics, 51. *Springer-Verlag, New York*, 1989. x+279 pp.

Norberg, Tommy. Random sets and capacities, with applications to extreme value theory. *University of Göteborg, Göteborg,* 1985. iv+24 pp.

Tavares, L. Valadares. On extreme values of stationary stochastic processes with exponential covariance functions. *Instituto Gulbenkian de Ciência, Centro de Cálculo Científico, Oeiras,* 1972. 59+xxi pp.

Gumbel, Emil J. Statistical theory of extreme values and some practical applications. A series of lectures. National Bureau of Standards Applied Mathematics Series, No. 33. *U. S. Government Printing Office, Washington, DC,* 1954. viii+51 pp.

Probability tables for the analysis of extreme-value data. National Bureau of Standards Applied Mathematics Series, No. 22. *U.S. Government Printing Office, Washington, DC*, 1953. iii+32 pp.