Bibliography

[1] Robert J Adler. The geometry of random fields. 1981. *John Wiley&Sons, Chichester.*

[2] Vladimir Igorevich Arnol'd. *Mathematical methods of classical mechanics*, volume 60. Springer Science & Business Media, 2013.

[3] Alberto Bressan. *Lecture Notes on Functional Analysis.* American Mathematical Society, 1900.

[4] George Casella. Monte carlo statistical methods. 2008.

[5] Richard M Dudley. *Real analysis and probability*, volume 74. Cambridge University Press, 2002.

[6] Bamdad Hosseini and John M Stockie. Airborne contaminant source estimation using a finite-volume forward solver coupled with a bayesian inversion approach. *arXiv preprint arXiv:1607.03518*, 2016.

[7] Edwin T Jaynes. *Probability theory: The logic of science.* Cambridge university press, 2003.

[8] Mark E Johnson, Leslie M Moore, and Donald Ylvisaker. Minimax and maximin distance designs. *Journal of statistical planning and inference*, 26(2):131–148, 1990.

[9] Marc C Kennedy and Anthony O'Hagan. Bayesian calibration of computer models. *Journal of the Royal Statistical Society: Series B (Statistical Methodology)*, 63(3):425–464, 2001.

[10] Leonid P Lebedev, Iosif I Vorovich, and Graham Maurice Leslie Gladwell. *Functional analysis: applications in mechanics and inverse problems*, volume 41. Springer Science & Business Media, 2012.

[11] Nicolas Lerner et al. *A Course on Integration Theory*. Springer, 2014.

[12] Mikhail Lifshits. *Lectures on Gaussian processes*. Springer, 2012.

[13] Mikhail Anatolevich Lifshits. *Gaussian random functions*, volume 322. Springer Science & Business Media, 2013.

[14] J David Logan. *Applied partial differential equations*. Springer, 2014.

[15] AS Monin and AMF Obukhov. Basic laws of turbulent mixing in the surface layer of the atmosphere. *Contrib. Geophys. Inst. Acad. Sci. USSR*, 151(163):e187, 1954.

[16] Kevin P Murphy. *Machine learning: a probabilistic perspective*. MIT press, 2012.

[17] Anthony OHagan. Bayesian analysis of computer code outputs: a tutorial. *Reliability Engineering & System Safety*, 91(10):1290–1300, 2006.

[18] Luc Pronzato and Werner G Müller. Design of computer experiments: space filling and beyond. *Statistics and Computing*, 22(3):681–701, 2012.

[19] Carl Edward Rasmussen. Gaussian processes for machine learning. 2006.

[20] Andrea Saltelli, Karen Chan, E Marian Scott, et al. *Sensitivity analysis*, volume 1. Wiley New York, 2000.

[21] John H Seinfeld, Spyros N Pandis, and Kevin Noone. Atmospheric chemistry and physics: from air pollution to climate change, 1998.

[22] Ilya M Sobol. Sensitivity estimates for nonlinear mathematical models. *Mathematical Modelling and Computational Experiments*, 1(4):407–414, 1993.

[23] Somersalo and Kaipio. *Statistical and computational inverse problems*. Springer-Verlag, 2005.

[24] Felipe AC Viana, Gerhard Venter, and Vladimir Balabanov. An algorithm for fast optimal latin hypercube design of experiments. *International journal for numerical methods in engineering*, 82(2):135–156, 2010.