

関連図書

- [1] 泉正己 (2021). 『数理科学のための関数解析』, サイエンス社.
- [2] 岡留剛 (2022). 『機械学習 1』, 共立出版.
- [3] 風巻紀彦 (2005). 凸関数論 (初版). 横浜図書.
- [4] 加藤賢吾 (2015). 『数理統計 講義ノート』, Available at

https://drive.google.com/file/d/0B7C_CufYq6j6ekFINVhTS091ZzQ/view?resourcekey=0-zaYo9XudjhK_K6kMfpq-XQ (accessed 2022/09/22).
- [5] 北廣男 (2009). オーリッツ空間とその応用 (第 1 刷). 岩波書店
- [6] 久保川達也 (2017). 『現代数理統計学の基礎』, 共立出版.
- [7] 清水泰隆 (2021). 『統計学への確率論, その先へ (第 2 版)』, 内田老鶴圃.
- [8] 清水泰隆 (2023). 『統計学への漸近論, その先へ (第 1 版)』, 内田老鶴圃.
- [9] 瀬戸道生・伊吹竜也・畑中建志 (2021). 『機械学習のための関数解析入門』, 内田老鶴圃.
- [10] 高橋陽一郎 (1996). 『実関数と Fourier 解析 1』, 岩波書店.
- [11] 堤正義 (2012). 『逆問題 – 理論および数理科学への応用 –』, 朝倉書店.
- [12] 荷見守助・長宗雄・瀬戸道生 (2018). 『関数解析入門 (第 1 版)』, 内田老鶴圃.
- [13] 西山陽一 (2025). 『マルチンゲール (初版第 1 刷)』, 共立出版.
- [14] 原啓介 (2017). 『測度・確率・ルベグ積分』, 講談社.
- [15] 藤岡敦 (2021). 『入門情報幾何』, 共立出版.
- [16] 福水健次 (2010). 『カーネル法入門』, 朝倉書店.

- [17] 吉田伸生 (2021). 『ルベーク積分入門』, 日本評論社.
- [18] BERESTYCKI, N., NICKLE, R. (2009). Concentration of Measure. https://www.stat.cmu.edu/~arinaldo/36788/berestycki_nickl_notes.pdf (最終閲覧日 2025/01/27)
- [19] BISGARD, JAMES (2021). Analysis and Linear Algebra: The Singular Value Decomposition and Applications, AMS.
- [20] BORWEIN, J.M., LEWIS, A.S. (2006). Convex Analysis and Non-linear Optimization Theory and Examples, 2nd. edition. Springer.
- [21] BOYD, S., VANDENBERGHE, L. (2018). Introduction to Applied Linear algebra. Cambridge University Press.
- [22] BÜHLMANN, P., VAN DE GEER, S. (2011). Statistics for High-Dimensional Data. Springer.
- [23] CHATTERJEE, S. (2007). Stein's Method and Application. Lecture notes of STAT C206A/MATH223A, Lecture 3. <https://souravchatterjee.su.domains//AllLectures.pdf> (最終閲覧日 2025/05/29)
- [24] CHRISTENSEN, R. (2019). Advanced Linear Modelling, 2nd ed., Springer. (最終閲覧日 2025/01/27)
- [25] CHRISTENSEN, R. (2019). Advanced Linear Modelling, 2nd ed., Springer. (最終閲覧日 2025/01/27)
- [26] COHN, D.L. (2013). Measure Theory. Birkhäuser.
- [27] DOBSON, A.J. (2008). 『一般化線形モデル入門』原著 第2版, 田中豊・森川敏彦・山中竹春・富田誠訳, 共立出版.
- [28] DUDLEY, R.M. (2008). Uniform Central Limit Theorem, 2nd edition. Cambridge University Press.
- [29] EVANS, L.C. (2021). Mathematical Methods for Optimization: Finite Dimensional Optimization. <https://math.berkeley.edu/~evans/math%20195%20notes.pdf> (最終閲覧日 2025/05/29)
- [30] FOURDRINIER, D., STRAWDERMAN, W.E., WELLS, M.T. (2018). Shrinkage Estimation. Springer.
- [31] GARRITY, T.A. (2002). All the Mathematics You Missed, Cambridge University Press.

- [32] GINÉ, E., NICKL, R. (2016). *Mathematical Foundations of Infinite-Dimensional Statistical Models*. Cambridge University Press.
- [33] GHOSAL, S., VAN DER VAART, A. (2017). *Fundamentals of Non-parametric Bayesian Inference*. Cambridge University Press.
- [34] JAMES, D., WITTEN D., HASTIE, T., AND TIBSHRANI, R. (2021). *An Introduction to Statistical Learning*, 2nd ed., Springer.
- [35] JOLY, E. (2020). *Themes of Statistics*. <http://joly415.perso.math.cnrs.fr/Cours/v.0.11.pdf> (最終閲覧日 2025/01/27)
- [36] KAIPIO, J., SOMERSALO, E. (2005). *Statistical and Computational Inverse Problems*. Springer.
- [37] KARR, A.E. (1993). *Probability*. Springer.
- [38] KATO, K. (2019). *Lecture Notes on Empirical Process Theory*. Available at https://drive.google.com/file/d/0B7C_CufYq6j6QU5rb1F2Y185d3c/view?usp=sharing&resourcekey=0-ItZa4Z1yrAGhUa7scVo_aw (最終閲覧日 2025/01/27)
- [39] KOSOROK, M.R. (2008). *Introduction to Empirical Processes and Semiparametric Inference*. Springer.
- [40] LEDERER, J. (2021). *Fundamentals of high-dimensional Statistics with Exercises and R Labs*, Springer text in Statistics. <https://link.springer.com/book/10.1007/978-3-030-73792-4>
- [41] KROSES, DI.P., BOTEV, Z.I., TAIMRE, T., VAISMAN, R. (2020). *Data Science and Machine Learning*, Chapman & Hall/CRC.
- [42] POLLARD, D. (1984). *Convergence of Stochastic Processes*. Springer. <http://www.stat.yale.edu/~pollard/Books/1984book/pollard1984.pdf> (最終閲覧日 2021/08/03)
- [43] POLLARD, D. (2002). *A User's Guide to Measure Theoretic Probability*. Cambridge University Press.
- [44] RESNICK, S.I. (2014). *A Probability Path*. Birkhäuser.
- [45] RIGOLLET, P., HÜTTER, J.-C. (2019). *High dimensional Statistics*. Lecture note. <https://arxiv.org/pdf/2310.19244> (最終閲覧日 2025/05/29)

- [46] ROSENTHAL, J.S. (2006). A First Look at Rigorous Probability Theory. 2nd editon. World Scientific.
- [47] SAITOH, S., SAWANO, Y. (2016). Theory of Reproducing Kernels and Applications, Springer.
- [48] SEN, B. (2015). A Gentle Introcution to Empirical Process Theory and Application. Available at <http://www.stat.columbia.edu/bodhi/Talks/Emp-Proc-Lecture-Notes.pdf> (最終閲覧日 2020/08/03)
- [49] VAN DE GEER, S. (2020). Empirical Process Theory. Lecture note which is available at <http://www.stat.math.ethz.ch/geer/empirical-process2020.pdf> (最終閲覧日 2020/08/03)
- [50] VAN DE GEER, S. (2010). Mathematical Statistics. <https://www.stat.math.ethz.ch/~geer/mathstat.pdf> (最終閲覧日 2025/01/27)
- [51] VAN DER VAART, A.W. (1998). Asymptotic Statistics. Cambridge University Press.
- [52] VAN DER VAART, A.W. (1998). Mathematische Statistiek. a (最終閲覧日 2025/01/27)
- [53] VAN DER VAART, A.W., WELLNER, J.A. (2023). Weak Convergence and Empirical Processes with Applicatons to Statistics, 2nd edtion. Springer.
- [54] VESHYNIN, R. (2018). High-Dimensional Probability. Cambridge University Press.
- [55] WAINWRIGHT, M.J. (2019). High-Dimensional Statistics. Cambridge University Press.
- [56] WASSERMAN, L. (2004). All of Statistics, Springer.
- [57] WELLNER, J.A. (2005). Empirical Processes: Theory and Applications. Lecture Notes at Delft Technical University. <https://sites.stat.washington.edu/jaw/RESEARCH/TALKS/Delft/emp-proc-delft-big.pdf> (最終閲覧日 2025/05/29)