

FORMALIZATION OF MATHEMATICS

Summer Graduate School, MSRI/SLMath

June 5 to 16, 2023

- [1] J. AVIGAD, *Mathematical logic and computation*, Cambridge University Press, Cambridge, England, 2023, ISBN 978-1-108-47875-5. MR 4480578. Zbl 7565705. doi: 10.1017/9781108778756.
- [2] F. BAADER and T. NIPKOW, *Term rewriting and all that*, Cambridge University Press, Cambridge, England, 1998, ISBN 0-521-45520-0; 0-521-77920-0. MR 1629216. Zbl 0948.68098. doi: 10.1017/CBO9781139172752.
- [3] J. BARWISE (ed.), *Handbook of mathematical logic*, Studies in Logic and the Foundations of Mathematics **90**, North-Holland, Amsterdam, Holland, 1977, ISBN 0-7204-2285-X. MR 457132. Zbl 0443.03001. <https://www.sciencedirect.com/bookseries/studies-in-logic-and-the-foundations-of-mathematics/vol/90>.
- [4] S. BASU, R. POLLACK, and M.-F. ROY, *Algorithms in real algebraic geometry*, 2nd ed., Algorithms and Computation in Mathematics **10**, Springer, Berlin, Germany, 2006. MR 2248869. Zbl 1102.14041. doi: 10.1007/3-540-33099-2.
- [5] N. BOURBAKI, 1939–present, *Elements of Mathematics / Éléments de Mathématique* (book series).
- [6] A. R. BRADLEY and Z. MANNA, *The calculus of computation: Decision procedures with applications to verification*, Springer, Berlin, Germany, 2007, ISBN 978-3-540-74112-1. MR 2723322. Zbl 1126.03001. doi: 10.1007/978-3-540-74113-8.
- [7] S. R. BUSS (ed.), *Handbook of proof theory*, Studies in Logic and the Foundations of Mathematics **137**, North-Holland, Amsterdam, Holland, 1998, ISBN 0-444-89840-9. MR 1640324. Zbl 0898.03001. <https://www.sciencedirect.com/bookseries/studies-in-logic-and-the-foundations-of-mathematics/vol/137>.
- [8] D. A. COX, J. LITTLE, and D. O'SHEA, *Using algebraic geometry*, 2nd ed., Graduate Texts in Mathematics **185**, Springer, New York, NY, 2005, ISBN 0-387-20706-6. MR 2122859. Zbl 1079.13017. doi: 10.1007/b138611.
- [9] D. A. COX, J. LITTLE, and D. O'SHEA, *Ideals, varieties, and algorithms: An introduction to computational algebraic geometry and commutative algebra*, 4th ed., Undergraduate Texts in Mathematics, Springer, Cham, Switzerland, 2015, ISBN 978-3-319-16720-6; 978-3-319-16721-3. MR 3330490. Zbl 1335.13001. doi: 10.1007/978-3-319-16721-3.
- [10] J. HARRISON, *Handbook of practical logic and automated reasoning*, Cambridge University Press, Cambridge, England, 2009, ISBN 978-0-521-89957-4. MR 2503047. Zbl 1178.03001. doi: 10.1017/CBO9780511576430.
- [11] D. KROENING and O. STRICHMAN, *Decision procedures: An algorithmic point of view*, 2nd ed., Texts in Theoretical Computer Science. An EATCS Series, Springer, Berlin, Germany, 2016, ISBN 978-3-662-50496-3; 978-3-662-50497-0. MR 3617683. Zbl 1358.68002. doi: 10.1007/978-3-662-50497-0.
- [12] A. ROBINSON and A. VORONKOV (eds.), *Handbook of automated reasoning*, Elsevier and MIT Press, Amsterdam, Holland and Cambridge, MA, 2001, Volumes 1 and 2. ISBN 0-444-50813-9. Zbl 0964.00020. <https://www.sciencedirect.com/book/9780444508133/handbook-of-automated-reasoning>.
- [13] W. TUCKER, *Validated numerics: A short introduction to rigorous computations*, Princeton University Press, Princeton, NJ, 2011, ISBN 978-0-691-14781-9. MR 2807595. Zbl 1231.65077. doi: 10.1515/9781400838974. <https://press.princeton.edu/books/ebook/9781400838974/validated-numerics>.

Date: May 18, 2023.

Bibliography by Jeremy Avigad, Heather Macbeth, and Patrick Massot.