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| Nota di bibliografia Nota di contenuto | Description based upon print version of record. Includes bibliographical references and index. Part I Algebraic symbolic and numeric methods Basics of Ring Theory Basics of Polynominal Theory Groebner Basis Polynominal Resultants Linear and Nonlinear Homotpy Solutions of Overdetermined Systems Extended Newton-Raphson method Procrustes Solution EIV models and Pareto OptimalitySymbolic Regression Robust Estimation Part II Applications to geodesy and geoinformatics LPS-GNSS Orientations and vertical Deflections Cartesian to Ellipsoidal Mapping Positioning by RangingPositioning by resection Methods Positioning by intersection Methods GNSS Environmental Monitoring Algebraic Diagnosis of Outliers Datum Transformation Problems Appendix References Index. |

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point clouds. It is in realization that such huge amount of data requires efficient and robust mathematical solutions that this third edition of the book extends the second edition by introducing three new chapters: Robust parameter estimation, Multiobjective optimization and Symbolic regression. Furthermore, the linear homotopy chapter is expanded to include nonlinear homotopy. These disciplines are discussed first in the theoretical part of the book before illustrating their geospatial applications in the applications chapters where numerous numerical examples are presented. The renewed electronic supplement contains these new theoretical and practical topics, with the corresponding Mathematica statements and functions supporting their computations introduced and applied. This third edition is renamed in light of these technological advancements.