Numerically Solving Polynomial Systems With Bertini

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Summary : Free numerically solving polynomial systems with bertini pdf download - this book is a guide to concepts and practice in numerical algebraic geometry the solution of systems of polynomial equations by numerical methods through numerous examples the authors show how to apply the well-received and widely used open-source bertini software package to compute solutions including a detailed manual on syntax and usage options the authors also maintain a complementary web page where readers can find supplementary materials and bertini input files numerically solving polynomial systems with bertini approaches numerical algebraic geometry from a user s point of view with numerous examples of how bertini is applicable to polynomial systems it treats the fundamental task of solving a given polynomial system and describes the latest advances in the field including algorithms for intersecting and projecting algebraic sets methods for treating singular sets the nascent field of real numerical algebraic geometry and applications to large polynomial systems arising from differential equations those who wish to solve polynomial systems can start gently by finding isolated solutions to small systems advance rapidly to using algorithms for finding positive-dimensional solution sets curves surfaces etc and learn how to use parallel computers on large problems these techniques are of interest to engineers and scientists in fields where polynomial equations arise including robotics control theory economics physics numerical pdes and computational chemistry

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