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Understanding, finding, or even deciding on the existence of real solutions to a system of equations is a difficult problem with many applications outside of mathematics. While it is hopeless to expect much in general, we know a surprising amount about these questions for systems which possess additional structure often coming from geometry.

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Such equations from geometry for which we have information about their real solutions will be the subject of this short course. We will focus on equations from toric varieties and homogeneous spaces, particularly Grassmannians. Not only is much known in these cases, but they encompass some of the most common applications. The results we discuss may be grouped into three themes: (1) Upper bounds on the number of real solutions. (2) Geometric problems that can have all solutions be real.

Real Solutions to Equations from Geometry (University Lecture Series, Band 57) | Frank J. Sottile | ISBN: 9780821853313 | Kostenloser Versand für alle Bücher mit Versand und Verkauf duch Amazon.

Sottile, University Lecture Series, Vol. 57, American Mathematical Society, Provi-dence, Rhode Island, 2011. The book reports on latest achievements in real algebraic geometry, and namely on upper and lower bounds on the number of real solutions of systems of polynomial equations. The focus in on equations coming from toric varieties and Grassmannians, and on some geometric problems with all solutions real.

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Real Solutions to Equations from Geometry About this Title. Frank Sottile, Texas A&M University, College Station, TX. Publication: University Lecture Series

Particularly fruitful--both for information on real solutions and for applicability--are systems whose additional structure comes from geometry. Such equations from geometry for which we have information about their real solutions are the subject of these lecture notes, which focuses on bounds, both upper and lower, as well as situations in which all solutions can be real.

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