From Polynomial Equations to Galois Theory

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This book is devoted to traditionally one of the central problems of algebra, solutions of polynomial equations. This problem is presented in the book from two distinctly different perspectives: classical and modern (abstract) algebra. The first part of the book contains almost all of the standard material from College Algebra / Precalculus classes devoted to algebraic equations. However, it goes much further because in addition to traditional material it contains also their proofs. Among the unique features of the first part of the book are: 1) Proof of Descartes' Law of Signs; 2) Proof of the Fundamental Theorem of Algebra, pretty much on elementary level; 3) Simple derivations of formulas for solutions of cubic and quartic equations. Second part of the book consists of four chapters. The chapter about sets contains all the necessary material for the future chapters and in addition (for more curious reader) elementary presentation of the notions of cardinality of a set and Cantor set with its most important properties. The next chapter is on groups, including permutation groups. The following chapter is devoted to rings, fields, vector spaces, and field extensions. These are all necessary to handle the central problem of the book: Galois theory. In the last chapter of the book we present Galois' proof of impossibility of solutions of fifth degree equations by radicals. The proof is as elementary as we could make it and should be accessible to anybody who was able to go though the previous chapters. Every chapter of the book ends with an Exercises section. Number of exercises is limited but they are mostly challenging. To help the reader Appendix D contains most of the solutions or hints to them.

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