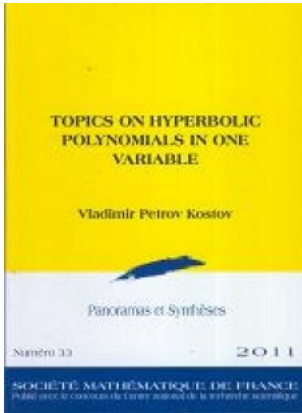


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**Sinopsis**

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This book exposes recent results about hyperbolic polynomials in one real variable, i.e. having all their roots real. It contains a study of the stratification and the geometric properties of the domain in  $\mathbb{R}^n$  of the values of the coefficients  $a_j$  for which the polynomial  $P:=x^n+a_1x^{n-1}+\dots+a_n$  is hyperbolic. Similar studies are performed w.r.t. very hyperbolic polynomials, i.e. hyperbolic and having hyperbolic primitives of any order, and w.r.t. stably hyperbolic ones, i.e. real polynomials of degree  $n$  which become hyperbolic after multiplication by  $x^k$  and addition of a suitable polynomial of degree  $k-1$ .

New results are presented concerning the Schur-Szego composition of polynomials, in particular of hyperbolic ones, and of certain entire functions. The question about the arrangement of the  $n(n+1)/2$  roots of the polynomials  $P, P(1), \dots, P(n-1)$  is studied for  $n=5$  with the help of the discriminant sets  $\text{Res}(P(i), P(j))=0$ .

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