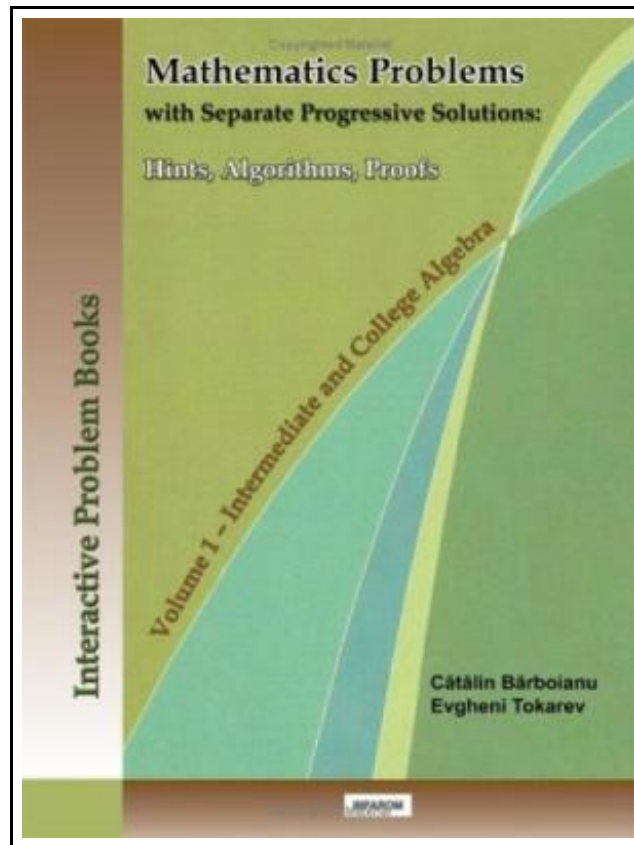


## Mathematics Problems with Separate Progressive Solutions: Hints, Algorithms, Proofs. Volume 1 - Intermediate and College Algebra



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*(Dr. Marcel Collins)*

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Infarom, Romania, 2008. Paperback. Book Condition: New. 224 x 150 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The problem-solving assumes theoretical and analytical skills, as well as algorithmic skills, coupled with a basic mathematical intuition. The concept of this problem book successfully supports the development of these skills of the solver and meanwhile offers mathematics instructors models for teaching problem-solving as an integral part of the mathematics learning process. The topics of the problems belong to algebra II and algebra of the first two years of college, passing through fields of integer and real numbers, equations, inequalities, powers, logarithms, divisibility, polynomials, and combinatorics. This work is the first of a series that will also operate in other domains and subdomains of mathematics. The problem book is structured in four separate and independent sections, namely Problems, Hints, Algorithms, and Proofs, in this order. The Problems section consists of over 100 problems themselves, which are of medium to advanced difficulty level. The problems can be presented and discussed at mathematics workshops and sessions of preparation for contests and olympiads as well as in the classroom, using problems of different difficulty levels with separate groups of students; for advanced groups, an instructor can use this problem book in its entirety. The Hints offer groups of keywords that suggest to the solver - intuitively, as well as analytically - an initial approach to the problem, important observations upon which the solution is based, categories of theoretical results applied when solving, and specific theoretical results. The hints also suggest indirectly the solving algorithm (found in the next section), but without exposing or synthesizing it. In the Algorithms section, the solving algorithms provide chronological groups of steps necessary for generating the complete solution. The algorithm is presented as a brief list of...

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