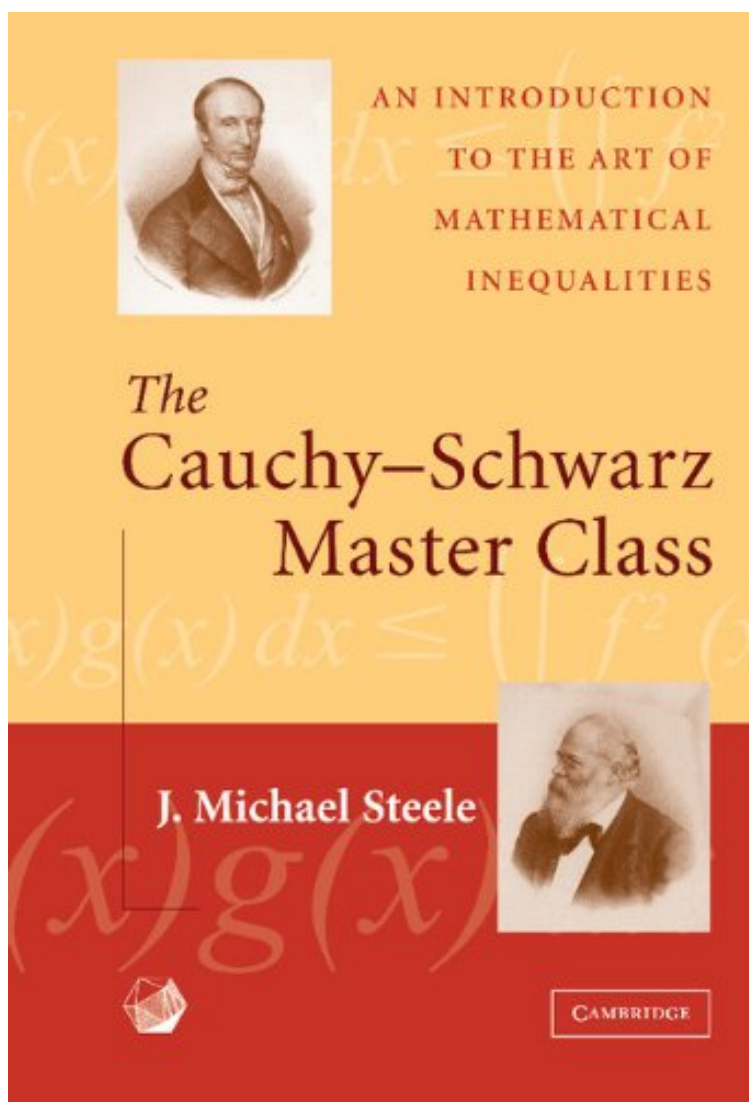


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# The Cauchy-Schwarz Master Class: An Introduction to the Art of Mathematical Inequalities



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geometry of squares, convexity, the ladder of power means, majorization, Schur convexity, exponential sums, and the inequalities of Hölder, Hilbert, and Hardy. The text is accessible to anyone who knows calculus and who cares about solving problems. It is well suited to self-study, directed study, or as a supplement to courses in analysis, probability, and combinatorics. *Revue de presse* 'This eminently readable book will be treasured not only by students and their teachers but also by all those who seek to make sense of the elusive macrocosm of twentieth-century mathematics.' *Zentralblatt MATH* 'pleasant reading for everyone with a solid real analysis background at undergraduate level, even before reading Pólya-Szegő. In fact, even researchers working on topics close to those in this book can find much to add to their repertoire.' Tamas Erdelyi, Department of Mathematics, Texas A&M University 'The book is special A large mathematics department with a functional graduate program could easily consider to offer a course based on this book.' Tamas Erdelyi, *Journal of Approximation Theory* *Présentation de l'auteur* This lively, problem-oriented text, first published in 2004, is designed to coach readers toward mastery of the most fundamental mathematical inequalities. With the Cauchy-Schwarz inequality as the initial guide, the reader is led through a sequence of fascinating problems whose solutions are presented as they might have been discovered - either by one of history's famous mathematicians or by the reader. The problems emphasize beauty and surprise, but along the way readers will find systematic coverage of the geometry of squares, convexity, the ladder of power means, majorization, Schur convexity, exponential sums, and the inequalities of Hölder, Hilbert, and Hardy. The text is accessible to anyone who knows calculus and who cares about solving problems. It is well suited to self-study, directed study, or as a supplement to courses in analysis, probability, and combinatorics.