

**D. S. MITRINOVIĆ – AN EMINENT MATHEMATICIAN
AND A MASTER OF INEQUALITIES**

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In this issue of AADM five papers are dedicated to the memory of Professor DRAGOSLAV S. MITRINOVIĆ (1908–1995), an eminent mathematician and one of the most important masters in the field of mathematical inequalities.

D. S. MITRINOVIĆ was active in mathematical research and publishing for a period of approximately 65 years from 1931 through 1995. He published (as author or co-author) 16 monographs, 35 university textbooks, 13 advanced mathematical books in various subjects of Mathematics with emphasis to inequalities, and 275 papers in international journals. MITRINOVIĆ’s work has provided a lot of influence in the international arena of Mathematics especially during the second half of the twentieth century. With his continuous participation in mathematical publications he opened new paths in several areas of both research and educational Mathematics.

He founded the journal “*Publications of the Faculty of Electrical Engineering, Series: Mathematics and Physics*” in 1956, which soon after its appearance gained international recognition to the extent that a number of world well-known mathematicians published some of their papers in the “*Publications*”. Since 2007, this Journal continues to serve the international mathematical community with the new title: “*Applicable Analysis and Discrete Mathematics*”.

It is of worth mentioning here that D. S. MITRINOVIĆ was a member of the Editorial Board of the East European Series “*Mathematics and Its Applications*” of Kluwer Academic Publishers, which published several very essential books and volumes.

We come back to MITRINOVIĆ’s most favorite subject of “inequalities” of long life work in which he contributed with a lot of dedication and passion. We wish to mention here three of the most influential books on inequalities:

1. G. H. HARDY, J. E. LITTLEWOOD, G. PÓLYA: *Inequalities*. Cambridge University Press, Cambridge, 1934.

2000 Mathematics Subject Classification. 01A70.

2. E. F. BECKENBACH, R. BELLMAN: *An Introduction to Inequalities*. Random House, New York, 1961.
3. D. S. MITRINOVIĆ (with P. M. VASIĆ): *Analytic Inequalities*. Springer-Verlag, Berlin, 1970.

It is generally acknowledged that the classic book [1] transformed the field of “inequalities” from a collection of isolated formulas into a systematic discipline. The modern theory of inequalities, as well as the continuing and growing interest in this field, undoubtedly stems from that work.

RICHARD BELLMAN said during the Second International Conference on General Inequalities (Oberwalfach, 30th July – 5th August 1978), “*There are three reasons for the study of inequalities: practical, theoretical, and aesthetic*”. On the aesthetic aspects he said: “*As has been pointed out, beauty is in the eyes of the beholder. However, it is generally agreed that certain pieces of music, art, or mathematics are beautiful. There is an elegance to inequalities that makes them very attractive.*”

After the classic book by HARDY, LITTLEWOOD and PÓLYA, the book of D. S. MITRINOVIĆ is the next most cited book in the field of mathematical inequalities. MITRINOVIĆ often used to say: “*There are no equalities, even in the human life the inequalities are always present*”.



TH. M. RASSIAS, D. S. MITRINOVIĆ and G. V. MILOVANOVIĆ (Belgrade, 1988)

The book of G. V. MILOVANOVIĆ, D. S. MITRINOVIĆ and TH. M. RASSIAS: *Topics in Polynomials: Extremal Problems, Inequalities, Zeros*. World Scientific Publishing Co., Singapore, New Jersey, London, 1994, presents a vast subject of polynomial inequalities and approximation theory in an integrated and self-contained fashion. Some 1200 references have been cited in it. It was a real stimulus for both of us to collaborate with this great master of inequalities.

It is a privilege and an honor to have edited the next five papers in this Issue of AADM dedicated to Professor DRAGOSLAV S. MITRINOVIĆ, the scientist, the teacher and the man in commemoration 100th anniversary of his birth.