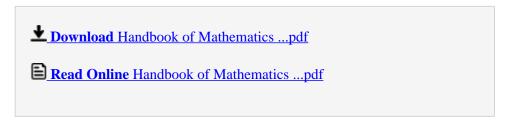# Handbook of Mathematics

By I.N. Bronshtein, K.A. Semendyayev, Gerhard Musiol, Heiner Mühlig

Handbook of Mathematics By I.N. Bronshtein, K.A. Semendyayev, Gerhard Musiol, Heiner Mühlig

This guide book to mathematics contains in handbook form the fundamental working knowledge of mathematics which is needed as an everyday guide for working scientists and engineers, as well as for students. Easy to understand, and convenient to use, this guide book gives concisely the information necessary to evaluate most problems which occur in concrete applications. In the newer editions emphasis was laid on those fields of mathematics that became more important for the formulation and modeling of technical and natural processes, namely Numerical Mathematics, Probability Theory and Statistics, as well as Information Processing. Besides many enhancements and new paragraphs, new sections on Geometric and Coordinate Transformations, Quaternions and Applications, and Lie Groups and Lie Algebras were added for the sixth edition.

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Editorial Review

Review

"Russian scholars Bronshtein and Semendyayev created a math classic over seven decades ago. … This new Springer edition details over 1,500 entries in its table of contents, including new entries for analytical geometry, Lie groups and Lie algebra, nonlinear optimization, and computer algebra systems. … Summing Up: Recommended. All mathematics library collections." (K. L. Swetland, Choice, Vol. 53 (11), July, 2016)

From the Back Cover

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About the Author

Prof. Dr. Gerhard Musiol

Gerhard Musiol received the Dipl.-Ing. degree for Physical Nuclear Technics in 1958 at the Technical University Dresden (TUD), the Doctorate degree in Physics in 1966 at the international "Joint Institute of Nuclear Research" (JINR) Dubna near Moscow/USSR and the University Lecturing Qualification at the TUD in 1970.
The Professorship with chair for Experimental Physics at the TUD Prof. Musiol has hold from 1969–1992 as chair of the Institute of Nuclear Physics and Automatization from 1970–1974 and as chair of the Institute of Applied Nuclear Physics from 1979–1992.
The most important teaching themes of Prof. Musiol concern Experimental Physics, Structure of Matter, Nuclear- and Elementary Particle Physics and Applied Nuclear Physics.
To the main directions of research belong 1. Spectrometric investigations of nuclei with short half-life at the 680-MeV-proton beam in the JINR, 2. Investigations of high-energetic atomic-ionization states inside of accelerated heavy ion rings at the collective accelerator of the JINR, 3. Investigations of processes and materials as well as control with nuclear radiations for industrial use (TUD) and 4. Absolute and precise determination of nuclearfission cross sections, important for nuclear energetics.
Most investigations have been performed in national or international co-operation.
In the years before entering into pension many effort Prof. Musiol spent for working in scientific bodies and commissions of experts at university-, national and international level.
The results of the investigations have been published together with co-authors in 49 publications in Scientific Journals with expert system, 33 in Scientific Journals without expert system and in 192 Research Reports.
There where well over 100 lectures at national and international conferences and continuation courses.

Prof. Musiol published co-authored 2 Text Books about Nuclear- and Elementary-Particle Physics and 3 Reference Books. One of the last is about "Physical Effects and their Applications"(3rd. Ed. 2005). The other two co-edited together with H. M¨uhlig are the "Handbook of Mathematics" in German (1st – 9th Ed. 2003-2013) and in English (4th – 6th Ed., Springer 2003-2015).

Prof. Dr. Heiner M uhlig

Student 1952-1957 Technical University Dresden (TUD); 1957 Diploma in Mathematics;
1958 Assistent at the TUD; 1967 Doctor degree Dr. rer. nat. TUD, 1970 Facultas Docendi quali cation to teach) in Numerical Mathematics; 1970 University lecturer (TUD);
1972-1977 Manager of the Department of Numerical Mathematics (TUD); 1993 Professor n Mathematics at the University of Applied Sciences (UAS) Zittau/G orlitz (Germany).
Since 1998 pensioner but teaching till 2008 (UAS) Zittau/G orlitz. Teaching and Research in Numerical Mathematics; co-operation with users of mathematical methods, especially with mechanical engineers; series of lectures "Mathematics for Mechanical Engineers".
Co-editor of the "Handbook of Mathematics", together with G. Musiol, (1st - 9th German Ed. 2003-2013) and in English (4th -6th Ed., Springer 2003-2015).

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