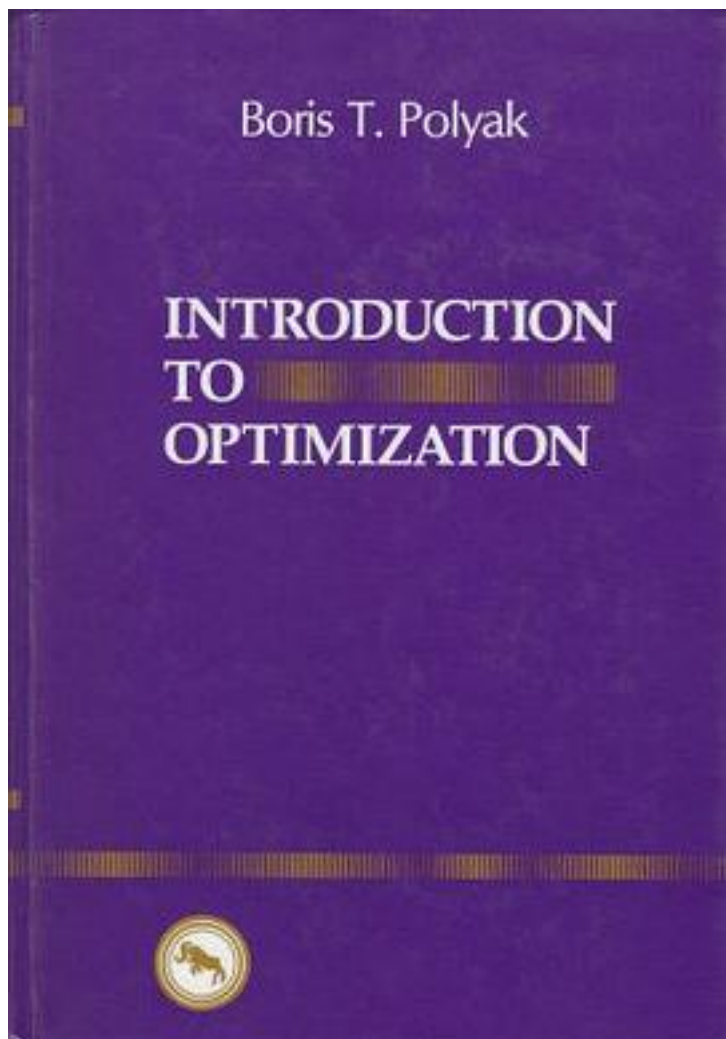# Introduction to Optimization

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作者介绍:

Boris T. POLYAK

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Position:

Laboratory Head, Institute for Control Sciences, Russian Academy of Sciences and Professor, Department of Engineering Cybernetics, Moscow Institute of Physics and Technology.

Education:

Student, Moscow Institute of Steel, 1952-1958,

Graduate Student, Moscow State University, 1960-1963.

Degrees:

Candidate of Science (Physics and Mathematics)(Russian equivalent to Ph.D.) - Moscow State University, 1963;

Doctor of Science (Engineering)(Highest scientifical degree in Russia) - Institute for Control Sciences, 1978.

Professional Membership: Associate Editor of Journals:

"Journal of Optimization Theory and Applications",

"Numerical Functional Analysis and Optimization",

"Automation and Remote Control",

"Computational Optimization and Applications",

"Control and Cybernetics",

"Journal of Difference Equations and Applications".

Former Associate Editor of "Mathematical Programming".

Member of Numerous Program Committees of International Conferences and Workshops.

Member of IFAC Technical Committee on Adaptive Control.

Head of Committee on Systems and Signals, Russian National Committee on Automatic Control.

Member of American Mathematical Society.

Publications: 4 Monographs, 177 Papers in Refereed Journals, 131 Papers in Conference Proceedings.

Employment:

1963-1971 - Moscow State University, Computer Center, Junior (later Senior) Scientific Researcher.

1971-present - Institute for Control Sciences, Moscow, Senior (later Leading and Principal) Scientific Researcher, at present - Head of Laboratory on Adaptive and Robust Systems.

Visiting Positions:

1991-1992 - Meyerhoff Fellow, The Weizmann Institute of Science, Israel.

1992, 1994 - Visiting Professor, University of Wisconsin-Madison, USA.

1995, 1997 - Visiting Professor, University of Paris-Sud, France.

1997, 2001, 2002 - Visiting Professor, Ecole Normale Superieur, Cachan, France.

1999 - NATO Fellow, 2000 - Visiting Professor, Politecnico di Torino, Turin, Italy.

Ph.D. Students Supervised: 17 of them Received a Degree of Candidate of Science (equivalent to Ph.D.), 4 of them are Doctors of Science.

Awards:

Meyerhoff Fellowship, 1991;

Andronov's Award of Russian Academy of Science, 1994;

Letov's Award of Institute for Control Science, 1999;

NATO Fellowship, 1999;

Award for the Best Paper, Published by Nauka, 2000;

Kulebakin's Award of Institute for Control Science, 2004;

Tzypkin's Award of Institute for Control Science, 2005;

Feldbaum's Award of Institute for Control Science, 2005;

IFAC Fellow, 2006.

Addresses:

Participated at Numerous National and International Conferences and Workshops. Gave Lectures at Universities of Russia, USA, France, Germany, Austria, Mexico, Israel, China, Australia and Other Countries. Plenary lecture at 17th International Symposium on Mathematical Programming, Atlanta, GA, August 2000.

Teaching Experience:

Moscow State University, Dept. of Mathematics (1960-1971) - Mathematical

Programming, Optimal Control, Theory of Extremal Problems;

Moscow Institute of Physics and Technology (1983- present) - Control Theory, Optimization and Control.

Areas of Interest:

Mathematical Programming,

Convex Analysis,

Numerical Analysis,

Stochastic Approximations,

Robust Estimation,

Stochastic Optimization,

Optimal Control,

Robust Stability,

Robust Control.

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