

BOOKS BY IVAN GUTMAN

1. A. Graovac, I. Gutman, N. Trinajstić
TOPOLOGICAL APPROACH TO THE CHEMISTRY OF CONJUGATED MOLECULES
Springer, Berlin, 1977, pp. X+123.
2. I. Gutman, O. E. Polansky
MATHEMATICAL CONCEPTS IN ORGANIC CHEMISTRY
Springer, Berlin, 1986, pp. X+212.
3. D. M. Cvetković, M. Doob, I. Gutman, A. Torgašev
RECENT RESULTS IN THE THEORY OF GRAPH SPECTRA
North-Holland, Amsterdam, 1988, pp. XII+306.
4. S. J. Cyvin, I. Gutman
KEKULÉ STRUCTURES IN BENZENOID HYDROCARBONS
Springer, Berlin, 1988, pp. XV+348.
5. I. Gutman, S. J. Cyvin
INTRODUCTION TO THE THEORY OF BENZENOID HYDROCARBONS
Springer, Berlin, 1989, pp. IX+152.
6. I. Gutman
OBRADA REZULTATA MERENJA U HEMIJI (Elaboration of the Results of Measurements in Chemistry)
Faculty of Science, Kragujevac, 1990, pp. III+56.
7. S. Jokić, I. Gutman
HEMIJSKI ELEMENTI – POREKLO, TRANSMUTACIJE, RASPAD
(Chemical Elements – Origin, Transmutations, Decay)
Faculty of Science & University, Kragujevac & Dečje Novine, Gornji Milanovac, 1992, pp. III+123.
8. I. Gutman
OBRADA REZULTATA MERENJA (Elaboration of the Results of Measurements)
Faculty of Science, Kragujevac, 1997, pp. VI+69.
9. I. Gutman
OBRADA REZULTATA HEMIJSKIH MERENJA (Elaboration of the Results of Chemical Measurements)
Faculty of Science, Kragujevac, 2000, pp. VI+114.
10. I. Gutman
DVADESET GODINA SEMINARA MATEMATIČKE METODE U HEMIJI (Twenty Years of the Seminar Mathematical Methods in Chemistry)
Faculty of Science, Kragujevac, 2001, pp. VI+84.
11. M. V. Diudea, I. Gutman, L. Jäntschi
MOLECULAR TOPOLOGY
Nova, Huntington, 2001, pp. IX+332.

- 11a. M. V. Diudea, I. Gutman, L. Jäntschi
MOLECULAR TOPOLOGY
Nova, New York, 2002, pp. IX+329.
12. I. Gutman
UVOD U HEMIJSKU TEORIJU GRAFOVA (Introduction to Chemical Graph Theory)
Faculty of Science, Kragujevac, 2003, pp. IV+201.
13. I. Gutman
IZABRANA POGLAVLJA IZ ISTORIJE HEMIJE (Selected Chapters from the History of Chemistry)
Faculty of Science, Kragujevac, 2005, pp. IV+90.
14. X. Li, I. Gutman
MATHEMATICAL ASPECTS OF RANDIĆ-TYPE MOLECULAR STRUCTURE DESCRIPTORS
Faculty of Science & University, Kragujevac, 2006, pp. VI+330.
15. I. Gutman
DVADESET PET GODINA SEMINARA MATEMATIČKE METODE U HEMIJI (Twenty Five Years of the Seminar Mathematical Methods in Chemistry)
Faculty of Science, Kragujevac, 2006, pp. V+157.
16. I. Gutman, S. Radenković
ZBIRKA ZADATAKA IZ FIZIČKE HEMIJE 1 (Collection of Problems from Physical Chemistry 1)
Faculty of Science, Kragujevac, 2008, pp. VI+66.
17. I. Gutman, M. Zejnilagić-Hajrić, I. Nuić
IZABRANA POGLAVLJA IZ ISTORIJE HEMIJE. Drugo, prerađeno i dopunjeno izdanje (Selected Chapters from the History of Chemistry. Second, revised and extended edition)
Faculty of Science, Kragujevac, 2010, pp. V+113.
18. I. Gutman, J. Đurđević, S. Stojanović, A. V. Teodorović
NASTAVA HEMIJE KROZ DRUŽENJE, IGRANJE I MAŠTANJE (Teaching of Chemistry by Friendship, Playing and Imagination)
Faculty of Science & Center for Freedom Activities, Kragujevac, 2011, pp. 96.
19. X. Li, Y. Shi, I. Gutman
GRAPH ENERGY
Springer, New York, 2012, pp. XI+266.
20. I. Gutman, M. Zejnilagić-Hajrić, I. Nuić
HISTORIJSKI RAZVOJ HEMIJE (Historical Development of Chemistry)
Faculty of Science Sarajevo, Sarajevo, 2012, pp. VI+156.
21. I. Gutman
SELECTED THEOREMS IN CHEMICAL GRAPH THEORY
Faculty of Science & University, Kragujevac, 2017, pp. VII+168.

edited books:

1. D. Cvetković, I. Gutman, T. Pisanski, R. Tošić
GRAPH THEORY. PROCEEDINGS OF THE FOURTH YUGOSLAV
SEMINAR ON GRAPH THEORY
University of Novi Sad, Novi Sad, 1984, pp. IV+319.
2. I. Gutman, S. J. Cyvin
ADVANCES IN THE THEORY OF BENZENOID HYDROCARBONS
(Topics in Current Chemistry 153)
Springer, Berlin, 1990, pp. VIII+292.
3. I. Gutman
ADVANCES IN THE THEORY OF BENZENOID HYDROCARBONS II
(Topics in Current Chemistry 162)
Springer, Berlin, 1992, pp. VIII+226.
4. I. Gutman
MATHEMATICAL METHODS IN CHEMISTRY
Prijepolje Museum, Prijepolje, 2006, pp. X+208.
5. D. Cvetković, I. Gutman, V. Kovačević–Vujčić
GRAFOVI, OPTIMIZACIJA, HEMIJA – ZAPISI O RADU JEDNOG NAUČNOG
PROJEKTA (Graphs, optimization, chemistry – Notes on the work of a scientific
project)
Akademska misao, Beograd, 2007, pp. VIII+188.
6. I. Gutman, B. Furtula
RECENT RESULTS IN THE THEORY OF RANDIĆ INDEX
Faculty of Science & University, Kragujevac, 2008, pp. III+282.
7. D. Cvetković, I. Gutman
APPLICATIONS OF GRAPH SPECTRA
Matematički Institut SANU, Beograd, 2009, pp. 140.
8. A. Graovac, I. Gutman, D. Vukičević
MATHEMATICAL METHODS AND MODELLING FOR STUDENTS OF CHE-
MISTRY AND BIOLOGY
Hum, Zagreb, 2009, pp. IX+271.
9. I. Gutman, B. Furtula
NOVEL MOLECULAR STRUCTURE DESCRIPTORS – THEORY AND APPLI-
CATIONS I
Faculty of Science & University, Kragujevac, 2010, pp. III+239.
10. I. Gutman, B. Furtula
NOVEL MOLECULAR STRUCTURE DESCRIPTORS – THEORY AND APPLI-
CATIONS II
Faculty of Science & University, Kragujevac, 2010, pp. III+302.

11. D. Cvetković, I. Gutman
SELECTED TOPICS ON APPLICATIONS OF GRAPH SPECTRA
Matematički Institut SANU, Beograd, 2011, pp. 174.
12. I. Gutman, B. Furtula
DISTANCE IN MOLECULAR GRAPHS – THEORY
Faculty of Science & University, Kragujevac, 2012, pp. III+348.
13. I. Gutman, B. Furtula
DISTANCE IN MOLECULAR GRAPHS – APPLICATIONS
Faculty of Science & University, Kragujevac, 2012, pp. III+252.
14. D. Cvetković, T. Davidović, I. Gutman, V. Kovačević–Vujčić
GRAFOVI OPTIMIZACIJA HEMIJA RAČUNARSTVO – ZAPISI O RADU JED-
NOG NAUČNOG PROJEKTA (Graphs, optimization, chemistry, computer science
– Notes on the work of a scientific project)
Akademska misao, Beograd, 2012, pp. VIII+144.
15. I. Gutman, B. Pokrić, D. Vukičević
ANTE GRAOVAC – LIFE AND WORKS
Faculty of Science & University, Kragujevac, 2014, pp. IV+306.
16. I. Gutman
TOPICS IN CHEMICAL GRAPH THEORY
Faculty of Science & University, Kragujevac, 2014, pp. IV+262.
17. I. Gutman, X. Li
GRAPH ENERGIES – THEORY AND APPLICATIONS
Faculty of Science & University, Kragujevac, 2016, pp. III+290.
18. Y. Shi, M. Dehmer, X. Li, I. Gutman
GRAPH POLYNOMIALS
CRC Press, Boca Raton, 2016, pp. XII+249.
19. I. Gutman, B. Furtula, K. C. Das, E. Milovanović, I. Milovanović
BOUNDS IN CHEMICAL GRAPH THEORY – BASICS
Faculty of Science & University, Kragujevac, 2017, pp. IV+302.
20. I. Gutman, B. Furtula, K. C. Das, E. Milovanović, I. Milovanović
BOUNDS IN CHEMICAL GRAPH THEORY – MAINSTREAMS
Faculty of Science & University, Kragujevac, 2017, pp. IV+299.
21. I. Gutman, B. Furtula, K. C. Das, E. Milovanović, I. Milovanović
BOUNDS IN CHEMICAL GRAPH THEORY – ADVANCES
Faculty of Science & University, Kragujevac, 2017, pp. IV+254.

guest editor:

- I. Gutman, S. Klavžar, B. Mohar
DISCRETE APPLIED MATHEMATICS (50th Anniversary of the Wiener
Index) Vol. **80**, Number 1, 1997, pp. 1–113.

- I. Gutman, S. Klavžar, B. Mohar
MATCH COMMUNICATIONS IN MATHEMATICAL AND IN COMPUTER CHEMISTRY (Fifty Years of the Wiener Index) Vol. **35**, 1997, pp. 1–259.
- I. Gutman
JOURNAL OF THE SERBIAN CHEMICAL SOCIETY (Fifty Years of the Wiener Index) Vol. **62**, Number 3, 1997, pp. 185–294.
- I. Gutman
INDIAN JOURNAL OF CHEMISTRY, Section A (Graph-Based Molecular Structure-Descriptors – Theory and Applications) Vol. **42**, Number 6, 2003, pp. 1193–1446.
- N. Abreu, D. Cvetković, I. Gutman, V. Nikiforov
LINEAR ALGEBRA AND ITS APPLICATIONS (Special Issue Devoted to Selected Papers Presented at the Workshop on Spectral Graph Theory with Applications on Computer Science, Combinatorial Optimization and Chemistry, Rio de Janeiro, 2008) Vol. **432**, Number 9, 2010, pp. 2161–2456.
- I. Gutman, P. Rowlinson, S. K. Simić, D. Stevanović, E. R. van Dam
LINEAR ALGEBRA AND ITS APPLICATIONS (Special Issue in Honor of Dragoš Cvetković) Vol. **435**, Number 10, 2011, pp. 2321–2638.