

LIST OF PUBLICATIONS

Isaac Elishakoff

A. Theses:

- A.1 I. Elishakoff, *Random Vibrations of Multilayered Shells*, Thesis for the Degree of Master of Science, Dept. of Dynamics and Strength of Machines, Power Engineering Institute and State University, Moscow, Russia, Feb. 1968 (summa cum laude) (advisor: academician V.V. Bolotin).
- A.2 I. Elishakoff, *Vibrational and Acoustical Fields in the Circular Cylindrical Shells Excited by Random Loads*, Thesis for the Degree of Ph. D., Dept. of Dynamics and Strength of Machines, Power Engineering Institute and State University, Moscow, Russia, May 1971, (advisor: academician V.V. Bolotin).

B. Books

- B1. I. Elishakoff, *Probabilistic Methods in the Theory of Structures*, Wiley-Interscience, New York, **1983**, XII + pp. 489; ISBN 0-471-87572.
- B.2 Yakov Ben-Haim and I. Elishakoff, *Convex Models of Uncertainty in Applied Mechanics*, Elsevier Science Publishers, Amsterdam, **1990**, XVII + pp. 221; ISBN 0-444-88406-8.
- B.3 Gabriel Cederbaum, I. Elishakoff, Jacob Aboudi and Liviu Librescu, *Random Vibration and Reliability of Composite Structures*, Technomic, Lancaster, **1992**, XIII + pp. 191; ISBN 0-87762-865-3.
- B.4 I. Elishakoff, Yukweng Lin and Liping Zhu, *Probabilistic and Convex Modeling of Acoustically Excited Structures*, Elsevier Science Publishers, Amsterdam, **1994**, VIII + pp. 296; ISBN 0-444-81624-0.
- B.5 Elishakoff I, *Probabilistic Theory of Structures*, Dover Publications, Mineola, New York, **1999**, XVI + pp. 492; ISBN 0-486-40691-1
- B.6 I. Elishakoff, Yiwei Li and James H. Starnes, Jr., *Non-Classical Problems in the Theory of Elastic Stability*, Cambridge University Press, **2001**, XVI + pp. 336; ISBN 0-521-78210-4.
- B.7 I. Elishakoff and Yongjian Ren, *Large Variation Finite Element Method for Stochastic Problems*, Oxford University Press, **2003**, IX + pp. 260; ISBN 0-19-852631-8.
- B.8 I. Elishakoff, *Safety Factors and Reliability: Friends or Foes?*, Kluwer Academic

Publishers, Dordrecht, **2004**, X + pp. 295; ISBN 1-4020-1779-0.

- B.9 I. Elishakoff, *Eigenvalues of Inhomogeneous Structures: Unusual Closed-Form Solutions of Semi-Inverse Problems*, CRC Press, Boca Raton, **2005**, XIV + pp. 729; ISBN 0-8493-2892-6.
- B.10 I. Elishakoff and Makoto Ohsaki, *Optimization and Anti-Optimization of Structures under Uncertainty*, Imperial College Press, London, **2010**, XV+ pp. 402; ISBN-13. 978-1-84816-477-2.
- B.11 I. Elishakoff, D. Pentaras, K. Dujat, C. Versaci, G. Muscolino, J. Storch, S. Bucas, N. Challamel, T. Natsuki, Y.Y. Zhang, C.M. Wang and G. Ghyselinck, *Carbon Nanotubes and Nano Sensors: Vibrations, Buckling, and Ballistic Impact*, ISTE-Wiley, London, **2012**, XIII+pp.421; ISBN-978-1-84821-345-6.
- B.12 I. Elishakoff, *Resolution of Twentieth Century Conundrum in Elastic Stability*, World Scientific/Imperial College Press, Singapore, **2014**; pp.333, ISBN 978-981-4583-53-4.
- B.13 I. Elishakoff, D. Pentaras and C. Gentilini, *Mechanics of Functionally Graded Material Structures*, World Scientific/Imperial College Press, Singapore; pp. 323, ISBN 978-981-4656-58-0, **2015**.
- B.14 I. Elishakoff, *Probabilistic Methods in the Theory of Structures: Random Strength of Materials, Random Vibration, and Buckling*, World Scientific, Singapore, ISBN 978-981-3149-84-7, **2017**.
- B.15 I. Elishakoff: *Probabilistic Methods in the Theory of Structures: Solution Manual to Accompany Probabilistic Methods in the Theory of Structures: Problems with Complete, Worked Through Solutions*, World Scientific, Singapore, ISBN 978-981-3201-10-1, **2018**.
- B.16 I. Elishakoff, *Handbook on Timoshenko-Ehrenfest Beam and Uflyand-Mindlin Plate Theories*, in preparation, 2018.

He is also the editor or co-editor of following 14 books:

- B.17 I. Elishakoff and Richard H. Lyon, (editors), *Random Vibration-Status and Recent Developments*, Elsevier Science Publishers, Amsterdam, **1986**, XX + pp. 565; ISBN 0-444-42665-5.
- B.18 I. Elishakoff and Horst Irretier, (editors), *Refined Dynamical Theories of Beams, Plates and Shells and their Applications*, Springer Verlag, Berlin, **1987**, XII + pp. 436; ISBN 3-540-17573-3.
- B.19 I. Elishakoff, Johann Arbocz, Charles D. Babcock, Jr. and Avinoam Libai, (editors), *Buckling of Structures-Theory and Experiment*, Elsevier Science Publishers, Amsterdam, **1988**, XX + pp. 449; ISBN 0-444-70474-4.
- B.20 S. T. Ariaratnam, Gerhart Schuëller and I. Elishakoff, (editors), *Stochastic Structural*

Dynamics-Progress in Theory and Applications, Elsevier Applied Science Publishers, London, **1988**, XX + pp. 375; ISBN 1-85166-211-1.

B.21 Chuh Mei, Howard F. Wolfe and I. Elishakoff, (editors), *Vibration and Behavior of Composite Structures*, ASME Press, New York, **1989**, V + pp. 73; ISBN 0-7918-0397-X.

B.22 Fabio Casciati, I. Elishakoff and J. Brian Roberts, (editors), *Nonlinear Structural Systems under Random Conditions*, Elsevier Science Publishers, Amsterdam, **1990**, pp. 386; ISBN 0-444-88803-9.

B.23 Ahmed K. Noor, I. Elishakoff and Greg Hulbert, (editors), *Symbolic Computations and Their Impact on Mechanics*, ASME Press, New York, **1990**, XV + pp. 376; ISBN 0-7918-0598-0.

B.24 David Hui and I. Elishakoff, (editors), *Impact and Buckling of Structures*, ASME Press, New York, **1990**, V + pp. 99; ISBN 0-7918-0589-1.

B.25 Y.K. Lin and I. Elishakoff, (editors), *Stochastic Structural Dynamics 1-New Theoretical Developments*, Springer, Berlin, **1991**, XIII + pp. 346; ISBN 3-540-54167-5.

B.26 I. Elishakoff and Y. K. Lin, (editors), *Stochastic Structural Dynamics 2 - New Applications*, Springer, Berlin, **1991**, XIII + pp. 351; ISBN 3-540-54168-3.

B.27 I. Elishakoff (editor), *Whys and Hows in Uncertainty Modeling*, Springer, Vienna, **1999**, VII + pp. 393, ISBN 3-211-83155-X.

B.28 Alexander P. Seyranian and I. Elishakoff (editors), *Modern Problems of Structural Stability*, Springer, Vienna, **2002**, III + pp. 394, ISBN 3-211-83697-7.

B.29 I. Elishakoff (ed.), *Mechanical Vibration: Where Do We Stand*, Springer, Vienna, **2007**, IV + pp. 488, ISBN 3-211-68586-3.

B.30 I. Elishakoff and C. Soize (editors), *Non-Deterministic Mechanics*, Springer, Vienna, **2012**, II+ pp. 356, ISBN 978-3-7091-1305-9.

C. Original Papers

C.1 I. Elishakoff, "Displacement and stress fields in semi-membrane shells," Proceedings of Moscow Energetics Institute, Dynamics and Strength of Machines, (V. V. Bolotin, ed.), 377-388, 1967 (in Russian).

C.2 V. Bolotin, I. Elishakoff, V. Moskalenko, B. Efimtsoff and N. Sharii, "Methods of determining the random acoustical fields inside the stiffened cylindrical shells," Proceedings of Moscow Energetics Institute, Dynamics and Strength of Machines, (V.V. Bolotin, ed.), 5-26, 1969 (in Russian).

C.3 I. Elishakoff, "On the sound reduction properties of some types of constructions,"

- Proceedings of Moscow Energetics Institute, Dynamics and Strength of Machines, (V.V. Bolotin, ed.), 48-54, 1970 (in Russian).
- C.4 I. Elishakoff and Khromatoff, V., "Influence of the supersonic flow on the behavior of panels excited by pressure fluctuations in turbulent boundary layer," Proceedings of Moscow Energetics Institute, Dynamics and Strength of Machines, (V.V. Bolotin, ed.), 55-61, 1970 (in Russian).
- C.5 I. Elishakoff, "Determination of cross-spectral densities of outer forces for plates and shells," in Proceedings of 3rd All-Union Conference on Reliability Problems in Structural Mechanics, (V.V. Bolotin and A. Cyras, eds.), Vilnius, 37-44, 1971 (in Russian).
- C.6 I. Elishakoff and Khromatoff, V., "Statistical analysis of the vibrations of a panel in a supersonic flow," (English translation), Mechanics of Solids, 5(4), 41-45, Allerton Press, Inc., New York), 1971.
- C.7 Bolotin, V.V. and I. Elishakoff, "Random oscillations in elastic shells containing an acoustic medium," (English translation), Mechanics of Solids, 6(5) 99-106, (Allerton Pres, Inc., New York), 1971.
- C.8 I. Elishakoff and Efimtsoff, B., "Vibrations of unbounded plates in a random force field," (English translation), Soviet Applied Mechanics, 8(8), 103-107, (Consultants Bureau, New York), 1972.
- C.9 I. Elishakoff, "Random vibrations of a two-span beam," Israel Journal of Technology, 11, 317-320, 1973.
- C.10 I. Elishakoff, "Mean-square stability of elastic bodies in supersonic flow," Journal of Sound and Vibration, 33, 67-78, 1974.
- C.11 I. Elishakoff, "Vibration analysis of clamped square orthotropic plate," American Institute of Aeronautics and Astronautics (AIAA) Journal, 12, 921-924, 1974.
- C.12 I. Elishakoff, "Distribution of natural frequencies in certain structural elements," Journal of the Acoustical Society of America, 57, 361-369, 1975.
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- C.14 I. Elishakoff and Yehuda Stavsky, "Axisymmetric buckling of certain annular composite plates," International Journal of Solids and Structures, 11, 1347-1356, 1975.
- C.15 I. Elishakoff and Fred Wiener, "Vibration of an open shallow cylindrical shell," Journal of Sound and Vibration, 44, 379-392, 1976.
- C.16 I. Elishakoff, "Bolotin's dynamic edge-effect method," Shock and Vibration Digest, 8(1), 95-104, 1976.

- C.17 I. Elishakoff, "On the role of cross-correlations in the random vibrations of shells" *Journal of Sound and Vibration*, 50, 239-252, 1977.
- C.18 I. Elishakoff, "Random vibrations of orthotropic plates with all edges clamped or simply supported," *Acta Mechanica*, 28, 165-176, 1977.
- C.19 I. Elishakoff and Mordechai Charmatz, "Godunov-Conte method for solution of eigenvalue problems and its applications," *Journal of Applied Mechanics*, 44, 776-779, 1977.
- C.20 I. Elishakoff, "Flutter and random vibration in plates," in "Stochastic Problems in Dynamics," (B.L. Clarkson, ed.), Pitman Press, London, 390-411, 1977.
- C.21 I. Elishakoff, "Axial impact buckling of a column with random initial imperfections," *Journal of Applied Mechanics*, 45, 361-365, 1978.
- C.22 I. Elishakoff, "Impact buckling of thin bar via Monte Carlo method," *Journal of Applied Mechanics*, 45, 586-590, 1978.
- C.23 I. Elishakoff, "Buckling of a stochastically-imperfect finite column on a nonlinear elastic foundation - a reliability study," *Journal of Applied Mechanics*, 46, 411-416, 1979.
- C.24 I. Elishakoff and Yehuda Stavsky, "Asymmetric vibrations of composite annular plates," *American Institute of Aeronautics and Astronautics (AIAA) Journal*, 17, 507- 513, 1979.
- C.25 I. Elishakoff, "Simulation of space-random fields for solution of stochastic boundary value problems," *Journal of the Acoustical Society of America*, 61, 399-403, 1979.
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- C.29 I. Elishakoff, "Remarks on the static and dynamic imperfection sensitivity of nonsymmetric structures," *Journal of Applied Mechanics*, 47, 111-115, 1980.
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- C.32 I. Elishakoff and Johann Arbocz, "Reliability of axially compressed cylindrical shells

- with random axisymmetric imperfections,” *International Journal of Solids and Structures*, 18, 563-585, 1982.
- C.33 Johann Arbocz and I. Elishakoff, “Stochastic stability analysis of axially compressed cylindrical shells,” in “Buckling of Shells in Offshore Structures” (J. E. Harding, P. J. Dowling and N. Agelidis, eds.), Granada, London, 413-423, 1982.
 - C.34 I. Elishakoff and Johann Arbocz, “Stochastic buckling of shells with general imperfections,” in “Stability of the Mechanics of Continua,” (F. M. Schroeder, ed.), Springer-Verlag, Berlin, pp. 306-317, 1982.
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 - C.38 I. Elishakoff, “How to introduce the imperfection sensitivity concept into design,” in “Collapse: Buckling of Structures in Theory and Practice,” (J.M.T. Thompson and G. B. Hunt, eds.), Cambridge University Press, Cambridge, pp. 345-357, 1983.
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 - C.40 I. Elishakoff, Victor Birman and Josef Singer, “Effect of imperfections on the vibrations of loaded structures,” *Journal of Applied Mechanics*, 51, 191-193, 1984.
 - C.41 I. Elishakoff and David Livshits, “Some closed-form solutions in random vibrations of Bernoulli-Euler beams,” *International Journal of Engineering Sciences*, 22, No. 11/12, 1291-1302, 1984.
 - C.42 Arend Scheurkogel and I. Elishakoff, “On ergodicity assumption in an applied mechanics problem,” *Journal of Applied Mechanics*, 52, 133-136, 1985.
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- C.49 Eliezer Lubliner and I. Elishakoff, "Random vibration of systems with finitely many degrees of freedom and several coalescent natural frequencies," *International Journal of Engineering Science*, 24, 461-470, 1986.
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- C.54 Amir Jacoby and I. Elishakoff, "Discrete-continuous elastic foundation may leave the flutter load unaffected," *Journal of Sound and Vibration*, 108, 523-525, 1986.
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- C.58 I. Elishakoff and Brian Couch, "Nonuniform Leipholz's column on elastic foundation buckling study by computerized symbolic algebra," *Solid Mechanics Archives*, 12, 379- 389, 1987.
- C.59 Margareta Rehak, Frank DiMaggio, Haim Benaroya and I. Elishakoff, "Random Vibrations with MACSYMA," *Computer Methods in Applied Mechanics and Engineering*, 61, 61-70, 1987.
- C.60 Itzhak Lottati and I. Elishakoff, "Influence of shear deformation and rotary inertia on flutter of a cantilevered beam-exact and symbolic computerized solutions," in *Refined Dynamical Theories in Beams, Plates and Shells and Their Applications*," Springer Verlag, Berlin, 261-273, 1987.
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- C.69 I. Elishakoff and Flavio Pellegrini, "Application of Bessel and Lommel functions and undetermined multiplier Galerkin method version for instability of a nonuniform column," Journal of Sound and Vibration, 115, 182-186, 1987.
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- C.78 Elie Yitzhak, I. Elishakoff and Menahem Baruch, "Dynamic imperfection sensitivity of a simple model structure," International Journal of Mechanics, Structures and Machines, 16, 187-199, 1988.
- C.79 I. Elishakoff and Charles W. Bert, "Comparison of Rayleigh's noninteger power method with Rayleigh-Ritz method," Computer Methods in Applied Mechanics and Engineering, 67, 297-309, 1988.
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