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LIST OF PUBLICATIONS

Isaac Elishakoff

A. Theses:

A.1 Elishakoff, I., *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 Elishakoff, I., *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

B.1 Elishakoff, I., *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 Elishakoff, I., *Convex Models of Uncertainty in Applied Mechanics,* Elsevier Science Publishers, Amsterdam, **1990**, XVII + pp. 221; ISBN 0-444-88406-8.

B.3 Gabriel Cederbaum, Elishakoff, I., 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 Elishakoff, I., 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 Elishakoff, I., 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.

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Stochastic Variations, Oxford University Press, **2003**, IX + pp. 260; ISBN 0-19-852631-8.

B.8 Elishakoff, I., *Safety Factors and Reliability: Friends or Foes?* Kluwer Academic Publishers, Dordrecht, **2004**, X + pp. 295; ISBN 1-4020-1779-0.

B.9 Elishakoff, I., *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.

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B.11 Elishakoff, I., Dimitris Pentaras, Kevin Dujat, Claudia Versaci, Giuseppe Muscolino,

Joel Storch, Simon Bucas, Noel Challamel, T. Natsuki, Y.Y. Zhang, Chien Ming Wang and Guillaume 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 Elishakoff, I., *Resolution of Twentieth Century Conundrum in Elastic Stability,*

World Scientific/Imperial College Press, Singapore, **2014**; XV+pp.333,

ISBN 978-981 4583-53-4.

B.13 Elishakoff, I., Dimitris Pentaras and Cristina Gentilini, *Mechanics of Functionally Graded Material Structures*, World Scientific/Imperial College Press, Singapore; pp. 323, ISBN 978-981-4656-58-0, **2015**.

B.14 Elishakoff, I., *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 Elishakoff, I., *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 Elishakoff, I., *Handbook on Timoshenko-Ehrenfest Beam and Uflyand-Mindlin Plate Theories*, World Scientific, Singapore, ISBN 978-981-3236-51-6, **2020.**

B.17 Elishakoff, I., *Dramatic Effect of Cross-Correlations in Random Vibrations of Discrete Systems, Beams, Plates, and Shells,* Springer, Nature, Switzerland, ISBN 978---3-030-40394-2, **2020.**

B.18 Vladimir Raizer and Elishakoff, I., *Philosophies of Structural Safety and Reliability,* Taylor & Francis, Boca Raton, Hb: 978-1-032-20930-1, **2022.**

B.19 Elishakoff, I., *Fair Share: 111 Problems from Ahmes to Aumann,* Springer, ISBN 3031404181, **2024.**

B.20 Elishakoff, I., *Multifaceted Uncertainty Quantification: Embracing Random, Fuzzy, and Uncertain-but-Bounded Variables*， De Gruyter, Berlin, **2024.**

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

B.21 Elishakoff, I. 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.22 Elishakoff, I. 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.23 Elishakoff, I. 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.24 S. T. Ariaratnam, Gerhart Schuëller and Elishakoff, I. (editors), *Stochastic Structural Dynamics-Progress in Theory and Applications*, Elsevier Applied Science Publishers, London, **1988**, XX + pp. 375; ISBN 1-85166-211-1.

B.25 Chuh Mei, Howard F. Wolfe and Elishakoff, I. (editors), *Vibration and Behavior of Composite Structures*, ASME Press, New York, **1989**, V + pp. 73; ISBN 0-7918-0397-X.

B.26 Fabio Casciati, Elishakoff, I. and J. Brian Roberts, (editors), *Nonlinear Structural Systems under Random Conditions*, Elsevier Science Publishers, Amsterdam, **1990**, pp. 386; ISBN 0-444-88803-9.

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B.28 David Hui and Elishakoff, I. (editors), *Impact and Buckling of Structures*, ASME Press, New York, **1990**, V + pp. 99; ISBN 0-7918-0589-1.

B.29 Y.K. Lin and Elishakoff, I. (editors), *Stochastic Structural Dynamics 1-New Theoretical Developments*, Springer, Berlin, **1991**, XIII + pp. 346; ISBN 3-540-54167-5.

B.30 Elishakoff, I. and Y. K. Lin, (editors), *Stochastic Structural Dynamics 2 - New Applications*, Springer, Berlin, **1991**, XIII + pp. 351; ISBN 3-540-54168-3.

B.31 Elishakoff, I. (editor), *Whys and Hows in Uncertainty Modeling*, Springer, Vienna, **1999**, VII + pp. 393, ISBN 3-211-83155-X.

B.32 Alexander P. Seyranian and Elishakoff, I. (editors), *Modern Problems of Structural Stability,* Springer, Vienna, **2002**, III + pp. 394, ISBN 3-211-83697-7.

B.33 Elishakoff, I. (ed.), *Mechanical Vibration: Where Do We Stand,* Springer, Vienna, **2007,** IV + pp. 488, ISBN 3-211-68586-3.

B.34 Elishakoff, I. and C. Soize (editors), *Non-Deterministic Mechanics*, Springer, Vienna, **2012**, II+ pp. 356, ISBN 978-3-7091-1305-9.

C. Original Papers

C.1 Elishakoff, I. "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

C.2 Vladimir Bolotin, Elishakoff, I. Valentin Moskalenko, Boris Efimtsoff and Nikolay 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 Elishakoff, I., "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.

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C.10 I. Elishakoff, “Mean-square stability of elastic bodies in supersonic flow,” Journal of Sound and Vibration, 33, 67-78, 1974.

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C.13 I. Elishakoff, "Turbulent flow-excited vibrations of a shallow cylindrical shell", AIAA Journal, Vol. 13(9),1179-1182, 1975.

C.14 I. Elishakoff and Yehuda Stavsky, “Axisymmetric buckling of certain annular composite plates,” International Journal of Solids and Structures, 11, 1347-1356, 1975.

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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 Charmats, “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.

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C.22 I. Elishakoff, “Impact buckling of thin bar via Monte Carlo method,” Journal of Applied Mechanics, 45, 586-590, 1978.

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problems," Journal of the Acoustical Society of America, 61, 399-403, 1979.

C.26 I. Elishakoff, Anton Th. van Zanten and Stephen H. Crandall, "Wide-band random axisymmetric vibration of cylindrical shells," Journal of Applied Mechanics, 46, 417- 423, 1979.

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C.31 Arend Scheurkogel, I. Elishakoff and Joost Kalker, "On the error that can be induced by an ergodicity assumption", Journal of Applied Mechanics, 48, 654-656, 1981.

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C.35 Walter D. Verduyn and I. Elishakoff, "A testing machine for statistical analysis of small imperfect shells," in "Proceedings of the Seventh International Conference on Experimental Stress Analysis," (Betser, A., ed.), Ayalon Press, Haifa, pp. 545-557, 1982. (For an extended version see: Delft University of Technology, Dept. of Aerospace Eng. Report LR-357, Sept. 1982, 35pp.).

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C.38 I. Elishakoff, "How to introduce the imperfection sensitivity concept into design," in

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C.54 Amir Jacoby (Yakobi) and Elishakoff I., "Discrete-continuous elastic foundation may leave the flutter load unaffected," Journal of Sound and Vibration, 108, 523-525, 1986.

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