

Elasticity and Continuum Mechanics Texts in Rutgers Libraries

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Elasticity texts: General

1. [Mathematical theory of elasticity](#), I. S. Sokolnikoff, New York, McGraw-Hill, 1956.
LSM QA931.S6 1956
2. [Elasticity](#), R. W. Little, Englewood Cliffs, N.J., Prentice-Hall, 1973. MATH and
LSM QA931.L58
3. [Elasticity for Engineers](#), D. S. Dugdale and C. Ruiz, New York: McGraw-Hill,
1971. LSM TA407.D78
4. [Introduction to elasticity](#), G. Nadeau, Rinehart and Winston, 1964. Dana (Newark)
QA931.N24
5. [Applied elasticity](#), J. Prescott, New York: Dover, 1961. MATH QA931.P8
6. [Elasticity in Engineering Mechanics](#), Arthur P. Boresi, Ken P. Chong, New York:
Elsevier, 1987. LSM TA405.B67
7. [Elasticity; tensor, dyadic, and engineering approaches](#), P. C. Chou and N. J.
Pagano, Princeton, N.J., Van Nostrand, 1967. PHYS QA931.C5
8. [Theoretical elasticity](#), C.E. Pearson, Harvard University Press, 1959. PHYS QA931.P38
9. [Elasticity: theory and applications](#), Herbert Reismann, Peter S. Pawlik, New York:
Wiley, 1980. PHYS TA418.R44
10. [Theory of Elasticity](#), S. P. Timoshenko and J. N. Goodier, New York: McGraw-
Hill, 1970. LSM QA931.T52 or MATH QA931.T55

11. [Engineering elasticity : application of numerical and analytical techniques](#), R.T. Fenner, New York: Halsted Press, 1986.LSM TA418.F46
12. [A treatise on the mathematical theory of elasticity](#), A. E. H. Love, New York: Dover, 1944 LSM, MATH QA931.L9 or PHYS QA931.L897T4
13. [An Introduction to the Theory of Elasticity](#), R. J. Atkin and N. Fox, New York: Longman, 1980. MATH QA931.A78
14. [Theory of elasticity](#), H. Leipholz, Leyden, Noordhoff International Pub, 1974.LSM QA931 .L442
15. [Applied elasticity : matrix and tensor analysis of elastic continua](#), J.D. Renton, New York: Halsted Press, 1987. LSM QA931.R39
16. [Theory of elasticity for scientists and engineers](#), Teodor M. Atanackovic, Ardshir Guran, Boston: Birkhuser, c2000. LSM QA931.A76
17. [A course in elasticity](#), B. Fraeijs de Veubeke, New York: Springer-Verlag, c1979.MATH QA1.A647 v.29

Elasticity texts: Advanced

1. [Nonlinear elasticity](#), J. J. Stoker, New York, Gordon and Breach, 1968. LSM and MATH QA931.S773 1968
2. [Plane elastic systems](#), L. M. Milne-Thomson, Berlin, Springer-Verlag, 1968. LSM and MATH QA931.M56 1968
3. [Elastic energy theory](#), J. A. Van den Broek, New York, J. Wiley 1931. LSM TG260.V227E
4. [Mathematical foundations of elasticity](#), Jerrold E. Marsden, Thomas J.R. Hughes, Englewood Cliffs, N.J.: Prentice-Hall, c1983. MATH QA931.M42 1983
5. [Anisotropic elasticity: theory and applications](#), T.C.T. Ting, New York: Oxford University Press, 1996. LSM TA418.9.C6T55
6. [Uniqueness theorems in linear elasticity](#), R. J. Knops and L. E. Payne, New York: Springer-Verlag, 1971. MATH and LSM QA931.K57
7. [Elasticity and plasticity. The mathematical theory of elasticity](#), J. N. Goodier and P. G. Hodge, New York: Wiley, 1958. MATH QA931.G6
8. [Three-dimensional problems of the theory of elasticity](#), A.I. Luré, New York, Interscience Publishers, 1964. MATH QA935.L9453
9. [Some basic problems of the mathematical theory of elasticity](#), N. I. Muskhelishvili, Leyden: Noordhoff, 1977. MATH QA931.M874
10. [Mathematical theory of elastic equilibrium](#), G. Grioli, New York, Academic Press, 1962. MATH QA935.G7
11. [Elasticity](#), J. R. Barber, Boston: Kluwer Academic Publishers, 1992. LSM QA931.B23

12. [Theory of elasticity and plasticity](#), H. M. Westergaard, Cambridge: Harvard University Press, 1952. MATH QA931.W45
13. [Theoretical elasticity](#), A. E. Green and W. Zerna, Oxford, Clarendon Press, 1968. PHYS QA931.G7
14. [Theory of Elasticity](#), L. D. Landau and E. M. Lifshitz, Pergamon, 1986. PHYS QA931.L283
15. [Introduction to linear elasticity](#), P. L. Gould, Springer-Verlag, 1983. LSM QA931.G64
16. [Topics in finite elasticity](#), Morton E. Gurtin, Philadelphia, Pa.: Society for Industrial and Applied Mathematics, 1981. MATH QA931.G84
17. [Elastic constants and their measurement](#), Edward Schreiber, Orson L. Anderson and Naohiro Soga, New York, McGraw-Hill 1974. LSM TA418.S37

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1. [Introduction to mechanics of continua.](#), W. Prager, Boston, Ginn, 1961. MATH QA901.P7
2. [Mechanics of deformable solids](#), I. H. Shames, Englewood Cliffs, N.J., Prentice-Hall, 1964. LSM TA405.S387
3. [Introduction to continuum mechanics for engineers](#), Ray M. Bowen, New York: Plenum Press, c1989. MATH and PHYS QA808.2.B68 1989
4. [Introduction to continuum mechanics](#), Lee R. Calcote, Princeton, N.J., Van Nostrand, 1968. MATH and LSM QA808.2.C3
5. [Applied continuum mechanics](#), T.J. Chung, Cambridge University Press, 1996. LSM QA808.2.C547 1996
6. [An introduction to continuum mechanics](#), Morton E. Gurtin, New York: Academic Press, 1981. MATH QA3.M38 v.158
7. [Introduction to continuum mechanics](#), W. Michael Lai, David Rubin, and Erhard Krempl, Oxford ; New York: Pergamon Press, 1978. LSM QA808.2.L3 1978
8. [Continuum mechanics](#), I-Shih Liu, Berlin ; New York: Springer, c2002. PHYS QA808.2.L58 2002
9. [Continuum mechanics](#), Patrick H. McDonald, Boston: PWS Pub. Co., c1996. LSM and DANA (Newark) QA808.2.M385 1996
10. [Principles of continuum mechanics](#), Mysore N.L. Narasimhan, New York: Wiley, c1993. PHYS TA407.N28 1993
11. [Matrix-tensor methods in continuum mechanics](#), S.F. Borg, Singapore ; Teaneck, NJ: World Scientific, c1990. LSM QA433.B62 1990

12. [Mechanics of deformable media](#), A.B. Bhatia, R.N. Singh, Bristol ; Boston: Hilger, c1986.. Pyhs QA808.2.B42 1986
13. [Continuum mechanics: concise theory and problems](#), P. Chadwick, New York: Wiley, c1976. PHYS and LSM QA808.2.C48
14. [Continuum Mechanics](#), A. J. M. Spencer, Longman, 1980. MATH QA808.2.S63
15. [Continuum mechanics; an introductory text for engineers](#), Philip G. Hodge, Jr., New York, McGraw-Hill, 1970. LSM and PHYS QA808.2.H6
16. [A first course in continuum mechanics](#), Y. C. Fung, Englewood Cliffs, N.J., Prentice-Hall, 1977. LSM QA808.2.F85 1977
17. [An Introduction to the Mechanics of a Continuous Medium](#), L. E. Malvern, Prentice-Hall, 1969. MATH QA808.2.M3
18. [Mechanics of continuous media](#), S. C. Hunter, New York: Halsted Press, 1976. LSM and PHYS QA808.2.H86
19. [Continuum mechanics](#), W. Jaunzemis, New York, Macmillan, 1967. LSM QA808.2.J3 1967
20. [Mechanics of Continua](#), A. C. Eringen, Wiley, 1967. LSM and MATH QA808.2.E73
21. [The Elements of Continuum Mechanics](#), C. S. Truesdell, Springer, 1966. MATH QA808.2.T67
22. [Foundations of Solid Mechanics](#), Y. C. Fung, Prentice-Hall, 1965. LSM, MATH, Mabel Smith (Douglass) QA807.F85
23. [The Elements of Continuum Mechanics](#), Y. C. Fung, Prentice-Hall, 1965.

Some papers in elasticity

1. R. Kienzler and D. Zhuping, On the distribution of hoop stresses around circular holes in elastic sheets. [Journal of Applied Mechanics, Transactions of the ASME](#), Vol. 54, pp. 110-114, 1987.
2. J. D. Eshelby, The force on an elastic singularity. [Philosophical Transactions of the Royal Society of London](#), Vol. A 244, pp. 87-112, 1951.
3. J. D. Eshelby, The determination of the elastic field of an ellipsoidal inclusion and related problems. [Proceedings of the Royal Society of London](#), Vol. A 241, pp. 376-396, 1957y.