1.; Crystals --; 2.; Framework of Crystal Elasticity --; 3.; Quasicrystal and Its Properties --; 4.; The Physical Basis of Elasticity of Solid Quasicrystals --; 5.; Elasticity Theory of One-Dimensional Quasicrystals and Simplification --; 6.; Elasticity of Two-Dimensional Quasicrystals and Simplification --; 7.; Application I--Some Dislocation and Interface Problems and Solutions in One- and Two-Dimensional Quasicrystals --; 8.; Application II--Solutions of Notch and Crack Problems of One- and Two-Dimensional Quasicrystals --; 9.; Theory of Elasticity of Three-Dimensional Quasicrystals and Its Applications --; 10.; Phonon-Phason Dynamics and Defect Dynamics of Solid Quasicrystals --; 11.; Complex Analysis Method for Elasticity of Quasicrystals. --; 12.; Variational Principle of Elasticity of Quasicrystals, Numerical Analysis and Applications --; 13.; Some Mathematical Principles on Solutions of Elasticity of Quasicrystals --; 14.; Nonlinear Behaviour of Quasicrystals --; 15.; Fracture Theory of Solid Quasicrystals --; 16.; Hydrodynamics of Solid Quasicrystals --; 17.; Remarkable Conclusion --; Major Appendix.; On Some Mathematical Additional Materials.