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Autore	Orlans F. Barbara
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Issues""; ""Conclusion""; ""IV: BEHAVIORAL RESEARCH""; ""7. Apes and Language: Washoe and Her Successors""; ""Washoe's History""; ""Did Washoe Learn a Language?""; ""Language Acquisition in Other Primates""; ""Recent Assessments in Ape Language Studies""; ""Ethical Issues""; ""8. Can Animal Aggression Be Studied in an Ethical Manner?""; ""The Elwood-Ostermeyer Project""; ""The Evolution of Ethical Concern""; ""Scientific Issues""; ""Ethical Issues""; ""Conclusion""; ""9. Monkeys Without Mothers""; ""Harlow and His Monkeys""
""Raising Monkeys Without Mothers as an Investigative Procedure""""" Ethical Issues""; ""V: WILDLIFE RESEARCH""; ""10. The Death of a Vagrant Bird""; ""Killing and Collecting""; ""The Purpose and Value of Ornithological Museum Collections""; ""The Purpose and Value of Birding""; ""Ethical Issues""; ""Conclusion""; ""VI: EDUCATION""; ""11. Dissection of Frogs: The Jenifer Graham Case""; ""Legislation, Courts, and the Professions""; ""History and Current Practice of Dissection""; ""Ethical Issues""; ""Conclusion""; ""VII: FOOD AND FARMING""; ""12. Force-Feeding of Geese""
""The Nature of Force-Feeding""""A Controversy at Iroquois Brands""; ""Statements from Animal Welfare Groups""; ""Ethical Issues""; ""13. Veal Crates and Human Palates""; ""The Veal Trade and Methods of Production""; ""The Protests""; ""The Interested Parties""; ""Ethical Issues""; ""14. Fowl Deeds""; ""The Broiler Chicken Industry""; ""Problems of Health and Welfare""; ""Ethical Issues""; ""VIII: COMPANION ANIMALS""; ""15. Should the Tail Wag the Dog?""; ""Historical, Medical, and Legal Aspects of Docking""; ""Interested Parties and the Political Landscape""
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Ammann-Beenker tilings; 6.2. Penrose tilings and their relatives; 6.3. Square triangle and shield tilings
6.4. Planar tilings with integer inflation multiplier6.5. Examples of non-Pisot tilings; 6.6. Pinwheel tilings; 6.7. Tilings in higher dimensions; 6.8. Colourful examples; Chapter 7 Projection Method and Model Sets; 7.1. Silver mean chain via projection; 7.2. Cut and project schemes and model sets; 7.3. Cyclotomic model sets; 7.4. Icosahedral model sets and beyond; 7.5. Alternative constructions; Chapter 8 Fourier Analysis and Measures; 8.1. Fourier series; 8.2. Almost periodic functions; 8.3. Fourier transform of functions; 8.4. Fourier transform of distributions
8.5. Measures and their decomposition8.6. Fourier transform of measures; 8.7. Fourier-Stieltjes coefficients of measures on S1; 8.8. Volume averaged convolutions; Chapter 9 Diffraction; 9.1. Mathematical diffraction theory; 9.2. Poisson's summation formula and perfect crystals; 9.3. Autocorrelation and diffraction of the silver mean chain; 9.4. Autocorrelation and diffraction of regular model sets; 9.5. Pure point diffraction of weighted Dirac combs; 9.6. Homometric point sets; Chapter 10 Beyond Model Sets; 10.1. Diffraction of the Thue-Morse chain
10.2. Diffraction of the Rudin-Shapiro chain10.3. Diffraction of lattice subsets; 10.4. Visible lattice points; 10.5. Extension to Meyer sets; Chapter 11 Random Structures; 11.1. Probabilistic preliminaries; 11.2. Bernoulli systems; 11.3. Renewal processes on the line; 11.4. Point processes from random matrix theory; 11.5. Lattice systems with interaction; 11.6. Random tilings; Appendix A The Icosahedral Group; Appendix B The Dynamical Spectrum; References; List of Definitions; List of Examples; List of Remarks; Index

Sommario/riassunto

Quasicrystals are non-periodic solids that were discovered in 1982 by Dan Shechtman, Nobel Prize Laureate in Chemistry 2011. The underlying mathematics, known as the theory of aperiodic order, is the subject of this comprehensive multi-volume series. This first volume provides a graduate-level introduction to the many facets of this relatively new area of mathematics. Special attention is given to methods from algebra, discrete geometry and harmonic analysis, while the main focus is on topics motivated by physics and crystallography. In particular, the authors provide a systematic exposition of the mathematical theory of kinematic diffraction. Numerous illustrations and worked-out examples help the reader to bridge the gap between theory and application. The authors also point to more advanced topics to show how the theory interacts with other areas of pure and applied mathematics.