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16. Calcium and Other Nutrients During Growth; 17. Growing a Healthy Skeleton: The Importance of Mechanical Loading; 18. Pregnancy and Lactation; 19. Menopause; 20. Age-Related Bone Loss; Section III. Mineral Homeostasis; 21. Regulation of Calcium and Magnesium; 22. Fetal Calcium Metabolism; 23. Fibroblast Growth Factor-23; 24. Gonadal Steroids; 25. Parathyroid Hormone; 26. Parathyroid Hormone-Related Protein; 27. Ca^{2+} -Sensing Receptor; 28. Vitamin D: Production, Metabolism, Mechanism of Action, and Clinical Requirements; Section IV. Investigation of Metabolic Bone Diseases; 29. DXA in Adults and Children; 30. Quantitative Computed Tomography in Children and Adults; 31. Magnetic Resonance Imaging of Bone; 32. Radionuclide Scintigraphy in Metabolic Bone Disease; 33. Assessment of Fracture Risk; 34. Biochemical Markers of Bone Turnover in Osteoporosis; 35. Bone Biopsy and Histomorphometry in Clinical Practice; 36. Vertebral Fracture Assessment; 37. Molecular Diagnosis of Bone and Mineral Disorders; Section V. Osteoporosis; 38. Epidemiology of Osteoporotic Fractures; 39. Overview of Pathogenesis; 40. Nutrition and Osteoporosis; 41. Role of Sex Steroids in the Pathogenesis of Osteoporosis; 42. Genetics of Osteoporosis; 43. Overview of Osteoporosis Treatment; 44. Prevention of Falls; 45. Orthopedic Surgical Principles of Fracture Management; 46. Exercise and the Prevention of Osteoporosis; 47. Calcium and Vitamin D; 48. Estrogens and SERMS; 49. Bisphosphonates for Postmenopausal Osteoporosis; 50. Strontium Ranelate in the Prevention of Osteoporotic Fractures; 51. Parathyroid Hormone Treatment for Osteoporosis; 52. Calcitonin; 53. Combination Anabolic and Antiresorptive Therapy for Osteoporosis; 54. Compliance and Persistence With Osteoporosis Medications; 55. Cost-Effectiveness of Osteoporosis Treatment; 56. Future Therapies for Osteoporosis; 57. Juvenile Osteoporosis; 58. Glucocorticoid-Induced Osteoporosis; 59. Inflammation-Induced Bone Loss in the Rheumatic Diseases; 60. Osteoporosis: Other Secondary Causes; 61. Transplantation Osteoporosis; 62. Osteoporosis in Men; 63. Premenopausal Osteoporosis

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 This comprehensive yet concise handbook is an indispensable reference for the many clinicians who see patients with disorders of bone formation, metabolic bone diseases, or disorders of stone formation. It is also a crucial tool for research.