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Nota di contenuto	Part I. The Kidney -- 1. Kidney: Ultrasound Anatomy and Scanning Methods -- 2. Acute and Chronic Nephropathy -- 3. Ischemic Nephropathy -- 4. Cystic lesions and cystic disease of the kidney -- 5. Kidney Stones -- 6. Solid Renal Masses -- 7. Renal Trauma -- 8. The Transplanted Kidney -- 9. Children's Kidney and Urinary Tract Congenital Anomalies -- 10. Normal and Pathological Adrenal Glands -- 11. Intraoperative Ultrasound in Renal Surgery -- 12. Interventional Ultrasound: Renal Biopsy -- 13. Percutaneous biopsy of renal masses:

Rationale, indications, Technique and results -- 14. Focal ablation in Kidney cancer -- 15. Interventional Ultrasound: Positioning Nephrostomy -- 16. Anterograde Approach For Ureteral Catheterization -- 17. Interventional Ultrasound: Puncture and Sclerotherapy of Renal Cysts -- Part II. The Male Pelvis, Ureters and Urethra -- 18. Ultrasound Study of the Ureters and Intrarenal Excretory Tract -- 19. Functional Ultrasound Study of the Upper Excretory Tract -- 20. Ultrasound Study of the Urethra -- 21. Interventional Ultrasound-Guided Treatment of Urinary Incontinence: Insertion of ProACT -- Part III. Prostate and Seminal Vesicles -- 22. Prostate and Seminal Vesicles: Ultrasound Anatomy and Scanning Methods -- 23. Prostatic Inflammation -- 24. Prostatic Cysts -- 25. Benign Prostatic Hypertrophy -- 26. Prostatic Carcinoma -- 27. The Seminal Vesicles: Normal and Pathological Pictures -- 28. Interventional Ultrasound: Transperineal Prostatic Biopsy -- 29. Interventional Ultrasound: Transrectal Prostatic Biopsy -- 30. Ultrasound MRI Fusion Biopsy in Prostate Gland -- 31. PET/TC/PSMA in the diagnosis of prostatic cancer -- 32. Role of Imaging and Biopsy to Assess Local Recurrence After Definitive Treatment for Prostate Carcinoma -- 33. Interventional Ultrasound: Prostatic Biopsy with Special Techniques (Saturation, Template) -- 34. Transperineal and Transrectal Biopsy Techniques in Men on Active Surveillance for Early Prostate Cancer -- 35. Interventional Ultrasound: US-Guided Puncture of the Bladder -- 36. Fiducial Marker Implantation in Prostate Radiation Therapy -- 37. Ultrasound Guided Treatment of Prostatic Cancer: Cryoablation -- 38. Ultrasound-Guided Treatment of Prostatic Cancer: Brachytherapy -- 39. Focal therapy in Prostatic Cancer -- Part IV. The Scrotum -- 40. Scrotum: Ultrasound Anatomy and Scanning Methods -- 41. The Testicles: Cystic Lesions -- 42. The Testicles: Solid Lesions -- 43. The Testicles: Trauma, Inflammation and Testicular Torsion -- 44. Varicocele -- 45. Scrotal Masses -- 46. Role of imaging after testicular sparing surgery -- 47. The Role of Intraoperative Ultrasound for Testicular Masses -- Part V. The Penis -- 48. Penis: Ultrasound Anatomy and Scanning Methods -- 49. Penile Color Doppler Ultrasound in the Diagnosis of Erectile Dysfunction -- 50. Penile Ultrasound in Induratio Penis Plastica (IPP) -- 51. Penile Trauma and Priapism -- 52. Ultrasound in Infertility Disease -- Part VI. New Technologies -- 53. 3D US -- 54. Elastosonography -- 55. Computerized Artificial Neural Network Analysis of the TRUS (ANNA/C-TRUS) -- 56. Contrast ultrasound dispersion imaging -- 57. Micro-ultrasound for the diagnosis and characterization of prostate cancer -- 58. Multiparametric ultrasound of the prostate -- 59. US Contrast Media in Renal Disease -- 60. US Contrast Media in Prostatic Disease -- 61. US Contrast Media in Scrotal Disease -- 62. US Contrast Media in Penile Disease -- 63. US and Arteriovenous Fistulas for Hemodialysis -- 64. US-Assisted Positioning of Central Venous Catheter -- 65. Applications of Ultrasound in Emergency -- 66. Practical Recommendations for Performing Ultrasound Scanning in the Urological and Andrological Fields -- Part VII. The Bladder and Female Pelvic Floor -- 67. Bladder: Ultrasound Anatomy and Scanning Methods -- 68. Neoplastic and Nonneoplastic Disease of the Bladder -- 69. Functional Ultrasound: Assessment of the Weight and Thickness of the Detrusor -- 70. Functional Ultrasound: Functional Female Echo-Dynamic Study.

Sommario/riassunto

This second edition provides updated recommendations for ultrasound examination of the whole urogenital system. Most of the chapters are updated, with new images and video clips; others are completely rewritten according to recent developments and guidelines. New chapters are added, mainly about in contrast-enhanced ultrasound,

fusion transperineal prostate biopsy, focal ablation in prostate cancer, microultrasound and multiparametric US, bladder outlet obstruction, and computerized analysis of ultrasound through artificial neural networks. Coverage includes the role of ultrasound in imaging disorders of the kidneys, urinary tract of the prostate, seminal vesicles, bladder, testicles, and penis, including male infertility disorders. Detailed consideration is given to intraoperative and interventional ultrasound and recently developed ultrasound techniques. Each chapter defines the purpose and indications for ultrasound; identifies its benefits and limitations; specifies technology standards for devices; outlines performance of investigation; establishes the expected accuracy of the differential diagnosis; and indicates the reporting method. Most recommendations are based on literature review; precedent recommendations; and the opinions of the recognized experts, of the Section of Urological Imaging (ESUI), of the European Society of Urology (EAU), of the Italian Society of Integrated Diagnostics in Urology, Andrology, and Nephrology (SIEUN), of the Italian Society of Urology (SIU) and Nephrology (SIN). This book can be of support both to those taking their first steps in the field of ultrasound, and to subject expert and ultrasound experts, who want to clarify some aspects in the field of urinary tract and male genitalia.
