



CONTENTS

PART ONE KIDNEY

1.	THE NORMAL KIDNEY AND URETER	1			
	Technic - Scout Film of the Abdomen - Normal Intravenous Urogram and Retrograde Pyelogram - Normal Variations in Calyces and Pelves - Normal Variations in Position and Contour of the Kidney and the Renal Pelvis - Normal Variations in Ureteral Course - Pyelorenal Backflow - Special Studies				
2.	CONGENITAL ANOMALIES OF THE KIDNEY	40			
	Anomalies of Number - Anomalies of Structure - Anomalies of Position - Extrarenal Anomalies - Comprehensive Work-up				
3.	ROTATION AND DISPLACEMENT OF THE KIDNEY	69			
	Rotation of the Kidney - Displacement of the Kidney - Nephroptosis or Mobile Kidney - Medial Ptosis - Herniation - Scoliosis				
4.	CALCULI OF THE KIDNEY AND THE URETER	84			
	Renal Calculi and Nephrocalcinosis - Ureteral Calculi - Renal Anomalies and Calculi - Complications of Renal Calculi				
5.	NONTUBERCULOUS INFECTIONS OF THE KIDNEY	110			
	<i>George R. Nagamatsu, M.D.</i>				
	Acute Pyelonephritis - Chronic Pyelonephritis - Obliterative Pyelonephritis - Xanthogranulomatous Pyelonephritis - Renal Fibrolipomatosis - Renal Abscess and Carbuncle - Pyonephrosis - Perinephric Abscess - Perinephritis - Renal Fistula - Renal Papillary Necrosis - Pyelitis Cystica - Brucellosis of the Urinary Tract - Fungal Diseases of the Kidney - Gas in the Urinary Tract				
6.	TUBERCULOSIS OF THE KIDNEY	153			
7.	OBSTRUCTIVE UROPATHY	172			
	<i>Milton Elkin, M.D.</i>				
	General Points - Causative Conditions Considered by Site - Nephrogram				
8.	TRAUMA OF THE KIDNEY	185			
	Causes - Classification - Radiographic Findings - Angiography - Late Sequelae of Trauma				
9.	CYSTS OF THE KIDNEY	203			
	Simple Cysts of the Kidney - Multilocular Cyst - Calyceal Cyst or Calyceal Diverticulum - Pyelogenic Cysts - Peripelvic Cysts - Cysts Associated With Malignancy - Cysts Secondary to Non-malignant Renal Pathology - Congenital Polycystic Disease - Multicystic Kidney Disease - Perinephric Cysts				
10.	TUMORS OF THE KIDNEY	222			
	Introduction - Carcinoma of the Renal Parenchyma - Adenocarcinoma of the Kidney Associated With Various Medical Problems - Prognosis in Renal Tumors - Differentiation Between Renal Cysts and Tumors - Embryonal Carcinoma—Nephroblastoma (Wilms's Tumor) - Carcinoma of the Renal Pelvis - Tumor of the Renal Capsule - Metastatic Tumors of the Kidney - Tumorlike Conditions—Unclassified - Rare Kidney Tumors - Benign Tumors of the Kidney - Endometriosis of the Kidney				
11.	MEDICAL DISEASES OF THE KIDNEY; HYPERTROPHIC AND HYPOPLASTIC KIDNEYS	264			
	<i>Keith Waterhouse, M.D.</i>				
	Urography and Pyelography in Patients With Renal Failure - Roentgen Findings in Acute Parenchymatous Disease - Roentgen Findings in Chronic Parenchymatous Disease - Hypoplasia of the Kidney - Compensatory Renal Hypertrophy - Bilateral Renal Cortical Necrosis				
12.	GASTROINTESTINAL AND OBSTETRIC GYNECOLOGIC CONDITIONS RELATING TO THE URINARY SYSTEM; DIABETES AND THE GENITOURINARY SYSTEM	274			
	Relationship of the Gastrointestinal and the Genitourinary System - Gynecologic Conditions Affecting the Genitourinary System - Pregnancy and the Urinary System - Placentography - Diabetes and the Genitourinary System				

PART TWO NEPHROTOMOGRAPHY AND ANGIOGRAPHY

John A. Evans, M.D.

13. NEPHROTOMOGRAPHY 302
 Technic - Abnormal Nephrotomograms - Discussion

14. ANGIOGRAPHY 326
 Indications - Complications - Evaluation of Technics - Phases and Value of the Angiogram - Renal Angiography in Hypertension - Summary - Renal Artery Aneurysm - Renal Vein Thrombosis

15. CHYLURIA 360

PART THREE ADRENAL GLAND

*James B. Dealy, Jr., M.D., and
 J. Hartwell Harrison, M.D.*

16. ROENTGENOLOGIC TECHNIC 362
 Introduction - Anatomy - Manifestations of Pathology - Special Radiographic Procedures

17. DISEASES OF THE ADRENAL 371
 Adrenocortical Insufficiency - Adrenocortical Hyperfunction - Lesions of the Adrenal Medulla - Cysts and Other Tumefactions

PART FOUR URETER

18. CONGENITAL LESIONS OF THE URETER 384
 Anomalies of Number - Anomalies of Structure - Anomalies of Origin and Termination

19. DISEASES OF THE URETER 402
 Ureteritis - Stricture - Tuberculosis - Ureteritis Cystica - Fistula - Retroperitoneal Fibrosis - Periureteral Fibrosis - Schistosomiasis - Endometriosis - Leukoplakia and Malakoplakia - Amyloidosis - Polyarteritis Nodosa - Vascular Notching of the Ureter - Ovarian Vein Syndrome

20. TRAUMA TO THE URETER 424
 Classification - Surgical Trauma - Instrumental Trauma - Spontaneous Rupture - Foreign Body - External Trauma - Radium and Radiotherapy

21. TUMORS OF THE URETER 439
 Classification - Primary Tumors of the Ureter - Secondary Tumors of the Ureter

22. MISCELLANEOUS CONDITIONS OF THE URETER 451
 Postoperative Ureter - Vesico-ureteral Reflux - Deviations of the Ureter - Characteristic Ureteral Deviations

PART FIVE BLADDER

23. NORMAL BLADDER 468
 Shape of the Bladder - Position of the Bladder - Size of the Bladder

24. CONGENITAL ANOMALIES OF THE BLADDER 475
 Classification and Description of Bladder Anomalies - Urachal Anomalies - Exstrophy of the Bladder

25. DISPLACEMENT OF THE BLADDER 485
 Classification - Individual Considerations - Meningocele - Inflammatory Lesions - Neurogenic Tumors

26. INFLAMMATIONS OF THE BLADDER 490
 Cystotrignitis and Hemorrhagic Cystitis - Cystitis Cystica - Chronic Interstitial Cystitis - Cystitis Emphysematosa - Pneumaturia - Tuberculosis of the Bladder - Malakoplakia - Schistosomiasis of the Bladder

27. HERNIATION AND DIVERTICULA OF THE BLADDER 498
 Hernia of the Bladder - Bladder Diverticula - Diagnosis

28. CALCULI OF THE BLADDER 507

29. TRAUMA AND FOREIGN BODIES OF THE BLADDER 512
 Trauma to the Bladder - Foreign Bodies in the Bladder

30. VESICAL FISTULA 519
 Classification - Causes, Characteristics and Sites - X-ray Diagnosis

31. NEUROGENIC BLADDER 526
 Effects on Bladder - Effects on the Urethra - Effects on the Ureter - Miscellaneous Effects

32. TUMORS OF THE BLADDER 530
 Primary Malignant Tumors - Nonepithelial Malignant Tumors - Primary Benign Tumors - Leukoplakia - Secondary Tumors

33. MISCELLANEOUS CONDITIONS OF THE BLADDER 548
 Causes of Contracted Bladders - Large Bladders - Other Conditions of the Bladder

PART SIX PROSTATE, SEMINAL VESICLES, EPIDIDYMIS AND VAS DEFERENS

34. THE PROSTATE 554
 Benign Prostatic Hypertrophy and Its Effects on the Genitourinary Tract - Carcinoma of the Prostate - Sarcoma of the Prostate - Prostatic Calculi - Acute Prostatitis - Prostatic Abscess - Chronic Prostatitis - Granulomatous Prostatitis - Tuberculosis of the Prostate Gland - Prostatic Cysts

35. SEMINAL VESICLES, VAS DEFERENS AND EPIDIDYMIS 580
 Anatomy of the Male Genital Tract - Seminal Vesiculography - Important Affections of the Seminal Vesicles - Effects of Benign Prostate Hypertrophy on Ejaculatory Ducts and Seminal Vesicles - Calcification of Vas Deferens - Vaso-epididymography

PART SEVEN URETHRA

36. NORMAL URETHRA 598
 Anatomy - Cystourethrography - Normal Cystourethrogram - Variations of Normal

37. CONGENITAL LESIONS OF THE URETHRA .. 609
 Congenital Urethral Valves - Urethral Duplications and Accessory Canals - Prostatic Utricle - Müllerian Duct Remnants - Abnormal Sex Differentiation - Enlargement of the Verumontanum - Epispadias - Hypospadias

38. INFLAMMATION OF THE URETHRA 618
 Acute Inflammation - Chronic Inflammatory Processes - Periurethral Abscesses

39. DIVERTICULA OF THE URETHRA 622

40. TRAUMA TO THE URETHRA, FOREIGN BODIES AND CALCULI 629
 Extent of Injuries: Site and Complications - Foreign Bodies in the Urethra - Urethral Calculi

41. STRICTURES OF THE URETHRA 637
 Classification of Strictures - False Passages - Contracture of the Bladder Neck

42. CARCINOMA OF THE URETHRA 649
 Primary Carcinoma - Secondary Carcinoma

43. MISCELLANEOUS CONDITIONS OF THE URETHRA 654
 Urethrocavernous Refluxes - Method of Injection of Dorsal Vein of Penis - Urethral Fistula - Diseases of the Penis and the Scrotum

PART EIGHT PEDIATRIC UROLOGY

Guido Currarino, M.D.

44. VESICO-URETERAL REFLUX 666
 Methods To Demonstrate Reflux - Causes of Reflux and Conditions in Which It Occurs - Peculiarities of Reflux - Effects of Reflux - Severity of Reflux - Indications for Search of Reflux - Prognosis of Reflux - Therapy of Reflux

45. BLADDER NECK OBSTRUCTION 677
 Primary Severe Bladder Neck Stenosis - Milder Forms of Primary Bladder Neck Obstruction - Secondary Bladder Neck Obstruction

46. MEGACYSTIS SYNDROME 681

47. ABSENT ABDOMINAL MUSCULATURE 684

48. POSTERIOR URETHRAL VALVES 687

49. URETEROCELE 692
Simple Ureterocele - Ectopic Ureterocele

50. SIMPLE URETERAL ECTOPIA 696

51. CYSTIC RENAL DISEASE 699
Multicystic Kidney - True Polycystic Kidney

52. TUMORS OF THE URINARY TRACT AND EX-
TRINSIC TUMORS OF UROLOGIC INTEREST . 702
Primary Tumors of the Kidney - Secondary
Neoplasms of the Kidney - Tumors of the
Renal Pelvis and the Ureter - Tumors of the
Lower Urinary Tract - Tumors of the Adrenal
Gland and Related Structures - Other Extrinsic
Tumors of Urologic Interest

PART NINE RADIOISOTOPE RENOGRAM

Chester C. Winter, M.D.

53. RADIOISOTOPE UROLOGIC TESTS 712
The Radioisotope Renogram - Uroflometry and
Bladder Residual Tests - The Radioisotope
Ureterovesical Reflux Test

54. EXCRETORY UROGRAPHY AS A RENAL FUNC-
TION TEST 719

PART TEN LYMPHOGRAPHY

Chien-Hsing Meng, M.D.

55. LYMPHOGRAPHY 722
Introduction - Technic - Normal Lymphogram -
Indications and Applications - Summary

INDEX 731