

Contents

	Preface	xv
1	Basic Physics of Ultrasound Marvin C. Ziskin	1
2	An Approach to Ultrasonic Risk Assessment and an Examination of Selected Experimental Studies William D. O'Brien, Jr. Thomas J. Withrow	15
3	Ultrasound Instrumentation and Its Practical Applications Gary A. Thieme Ronald R. Price A. Everette James, Jr.	23
4	Sonographic Depiction of Pregnancy During Embryonic Development Arthur C. Fleischer A. Everette James, Jr. Jack Davies Wylie J. Dodds Maurice Panigel Hugh P. Robinson	61
5	Doppler Monitoring Techniques in Pregnancy Jennifer R. Niebyl	75
6	Doppler Measurement of Umbilical Blood Flow Robert W. Gill Peter S. Warren	87

7	Normal Anatomy of the Female Pelvis: Ultrasound with Computed Tomography Correlation	99
	Alfred B. Kurtz Matthew D. Rifkin	
8	Fetal Anatomy	123
	Roger C. Sanders Nancy Smith Miner James Martin	
9	Dating Gestation in the First 20 Weeks	141
	Gregory D. O'Brien John T. Queenan	
10	Assessment of Gestational Age in the Second and Third Trimesters	147
	David Graham Roger C. Sanders	
11	Ultrasound Diagnosis of Intrauterine Growth Retardation	157
	Charles W. Hohler	
12	Ultrasound: Fetal Movements and Fetal Condition	175
	Paul F. Chamberlain Frank A. Manning	
13	The Impact of Ultrasound on Prenatal Diagnosis	189
	Virginia L. Corson Haig H. Kazazian, Jr.	
14	Ultrasonic Assessment of Genitourinary Anomalies In Utero	195
	Roger C. Sanders	
15	Fetal Cardiac Ultrasound	211
	Lindsey D. Allen	
16	Sonographic Evaluation of the Fetal Chest	219
	David Graham Roger C. Sanders	
17	Sonography of Fetal Abdominal Abnormalities	229
	James D. Bowie	
18	The Diagnosis of Abnormalities of the Fetal Central Nervous System	243
	J. Malcolm Pearce David Little Stuart Campbell	

19	Ultrasonic Assessment of the Face and Neck	257
	Roger C. Sanders	
20	Skeletal Dysplasia	267
	John C. Hobbins	
	Maurice J. Mahoney	
21	Diagnostic Ultrasound in Erythroblastosis Fetalis	279
	John T. Queenan	
	Gregory D. O'Brien	
22	Fetal Therapy	289
	Michael L. Johnson	
	William Clewell	
	Dolores Pretorius	
	Paul Meier	
	David Manchester	
23	Ultrasonography and Diabetes Mellitus in Pregnancy	297
	E. Albert Reece	
	John C. Hobbins	
24	The Sonographic Evaluation of Multiple Gestation Pregnancy	321
	Clifford S. Levi	
	Edward A. Lyons	
25	Sonography of the Placenta	333
	Beverly A. Spirt	
	Lawrence P. Gordon	
	Eugene H. Kagan	
26	Ultrasound Evaluation of Obstetric Problems Relating to the Lower Uterine Segment and Cervix	355
	Faye C. Laing	
27	Sonography of the Umbilical Cord	369
	David Graham	
	Joan Campbell	
	Karen L. Litchfield	
28	Amniocentesis: Current Concepts and Techniques	375
	Lawrence D. Platt	
	Lynden M. Hill	
	Greggory R. DeVore	

29	Sonography of Trophoblastic Diseases	387
	Arthur C. Fleischer Howard W. Jones III A. Everette James, Jr.	
30	Sonographic Evaluation of Ectopic Pregnancy	399
	Arthur C. Fleischer Peter S. Cartwright David L. DiPietro A. Everette James, Jr.	
31	Sonography in Induced Abortion	417
	David Graham Roger C. Sanders Theodore M. King	
32	Fetal Death	423
	Roger C. Sanders	
33	Sonographic Evaluation of Pelvic Masses and Maternal Disorders Occurring During Pregnancy	435
	Arthur C. Fleischer Frank H. Boehm A. Everette James, Jr.	
34	Postpartum Sonography	449
	Beatrice L. Madrazo	
35	Principles of Differential Diagnosis of Pelvic Masses by Sonography	457
	Arthur C. Fleischer Stephen S. Entman Lonnie S. Burnett A. Everette James, Jr.	
36	The Ovarian Mass	473
	Patricia Morley Ellis Barnett	
37	Follicular Size Assessment by Ultrasound	517
	B. J. Hackelöer	
38	Sonographic Evaluation of Uterine Malformations and Disorders	531
	Arthur C. Fleischer Stephen S. Entman Saar A. Porrath A. Everette James, Jr.	

39	Ultrasound in the Management of Gynecologic Malignancies	569
	Damon D. Blake	
40	Pelvic Inflammatory Disease and Endometriosis: Conditions Affecting Both Uterus and Adnexa	583
	Roger C. Sanders	
41	Ultrasound and the Intrauterine Device	597
	William J. Cochrane	
42	The Use of Ultrasound in Breast Evaluation	603
	Catherine Cole-Beuglet	
43	Certain Legal Aspects of Obstetric and Gynecologic Ultrasound	617
	A. Everette James, Jr.	
	Albert L. Bundy	
	Burton A. Johnson	
	Arthur C. Fleischer	
	Frank C. Boehm	
	Roger C. Sanders	
	Appendix	625
	Index	647