

---

# Contents

---

*Contributors xi*

*Preface xiii*

1

Basic Principles of Doppler Ultrasonography 1

*William J. Meyer / Richard Jaffe*

2

Color Doppler Imaging—A New Interpretation  
of the Doppler Effect 17

*Richard Jaffe*

3

From Ovulation to Implantation 35

*Roger A. Pierson*

4

Assessment of the Uteroplacental Circulation  
in the Normal First Trimester Pregnancy 61

*Richard Jaffe*

5

Uteroplacental Blood Flow Assessment  
in Early Pregnancy Failure 73

*Richard Jaffe*

6

Ultrasound Assessment of Ectopic Pregnancy 85

*Asim Kurjak / Ivica Zalud*

7

Umbilical and Uteroplacental Circulations in Late Pregnancy 99

*Joaquín Santolaya-Forgas*

8

The Use of Color Doppler Imaging to Examine  
the Fetal Heart. Normal and Pathologic Anatomy 121

*Greggory R. DeVore*

9

Normal Fetal Arterial and Venous Flow-Velocity Waveforms  
in Early and Late Gestation 155

*Juriy W. Wladimiroff / Tjeerd W. A. Huisman / Patricia A. Stewart*

10

Venous Flow Velocities in the Fetus 175

*Kathryn L. Reed*

11

Color Doppler Studies of Fetal Circulation  
in Intrauterine Growth Retardation 183

*Domenico Arduini / Giuseppe Rizzo*

12

Doppler Evaluation of Fetal Anomalies 209

*Jacques Abramowicz / Richard Jaffe*

13

The Use of Color Doppler Imaging  
in Invasive Obstetrical Procedures 243

*Abraham Ludomirski / Joseph G. Bell*

14

Normal and Abnormal Uterine Perfusion 255

*Asim Kurjak / Sanja Kupesic-Urek*

15

Ultrasound Assessment of Adnexal Masses 265

*Asim Kurjak / Ivica Zalud*

16

Color Doppler Hysterosalpingography 283

*Albert J. Peters / J. Jaroslav Stern / Carolyn B. Coulam**Index 295*