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Nota di contenuto	Frontmatter -- Preface -- Contents -- Part I: Basics of 3D Ultrasound -- 1. Basics of 3D and 4D Volume Acquisition -- 2. Orientation and Navigation within a Volume -- Part II: Methods of 3D Rendering -- 3. 3D Rendering of a Volume -- 4. Volume Contrast Imaging (VCI) -- 5. Multiplanar display I - Orthogonal Mode and Omnidirectional Planes -- 6. Multiplanar Display II: Tomographic Mode -- 7. Surface Mode Rendering and HD-Live -- 8. Maximum Mode Rendering -- 9. The Minimum Mode -- 10. The Inversion Mode -- 11. The Silhouette Tool -- 12. The Glass-Body Mode and HD-Live Flow -- 13. The B-Flow Mode -- 14. Biplane Display Using the Electronic Matrix Transducer -- 15. Calculation of 3D Volumes -- Part III: Clinical Applications of Prenatal Diagnosis -- 16. 3D Fetal Neurosonography -- 17. 3D of the Fetal Skeleton -- 18. 3D of the Fetal Face -- 19. 3D Intrathoracic and Intraabdominal Organs -- 20. STIC and 3D/4D Fetal Echocardiography -- 21. 3D in Early Pregnancy -- Further literature references and sources -- Index
Sommario/riassunto	In the last decade there was a widespread use of 3D ultrasound in obstetrical imaging. It is estimated that more than half of the obstetrical clinics are currently using ultrasound equipment with 3D capabilities. Initially known for its beautiful images of the faces of babies, 3D ultrasound has, however, become an important tool in prenatal diagnosis for its ability to image fetal organs in normal and abnormal conditions. This book is a state-of-the-art work conceived as

a practical guide to the application of 3D ultrasound in obstetrics. The book is illustrated with images reflecting the clinical utility of 3D ultrasound in prenatal diagnosis. The book has three sections: one section on the technical principles of 3D ultrasound, a second section on various 3D rendering tools with a step-by-step explanation of its use. The third section is dedicated to the clinical use of 3D in the examination of the fetal organs. The authors of this book have extensive expertise in 3D ultrasound that spans for more than 15 years.

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