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Autore	D'Angelo John P.
Titolo	Rational sphere maps // John P. D'Angelo
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ISBN	3-030-75809-5
Descrizione fisica	1 online resource (244 pages)
Collana	Progress in Mathematics ; ; Volume 341
Disciplina	515.53
Soggetti	Spherical functions Euclidean algorithm Funcions esferoïdals Algorismes Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Preface -- Contents -- 1 Complex Euclidean Space -- 1 Generalities -- 2 The Groups $\text{Aut}(\mathbb{B}^1)$, $\text{SU}(2)$, and $\text{SU}(1,1)$ -- 3 Automorphisms of the Unit Ball -- 4 Hermitian Forms -- 5 Proper Mappings -- 6 Some Counting -- 7 A GPS for This Book -- 2 Examples and Properties of Rational Sphere Maps -- 1 Definition and Basic Results about Rational Sphere Maps -- 2 Sphere-Ranks and Target-Ranks -- 3 Ranks of Products -- 4 Juxtaposition -- 5 The Tensor Product Operation -- 6 The Restricted Tensor Product Operation -- 7 An Abundance of Rational Sphere Maps -- 8 Some Results in Low Codimension -- 9 A Result in Sufficiently High Codimension -- 10 Homotopy and Target-Rank -- 11 Remarks on Degree Bounds -- 12 Inverse Image of a Point -- 13 The General Rational Sphere Map -- 14 A Detailed Rational Example -- 15 An Example in Source Dimension 3 -- 3 Monomial Sphere Maps -- 1 Properties of Monomial Sphere Maps -- 2 Some Remarkable Monomial Sphere Maps -- 3 More on These Remarkable Polynomials -- 4 Cyclic Groups and Monomial Sphere Maps -- 5 Circulant Matrices -- 6 The Pell Equation -- 7 Elaboration of the Method for Producing Sharp Polynomials -- 8 Additional Tricks -- 9 Maps with Source Dimension 2 and Target Dimension 4 -- 10 Target-

Ranks for Monomial Sphere Maps -- 4 Monomial Sphere Maps and
 Linear Programming -- 1 Underdetermined Linear Systems -- 2 An
 Optimization Problem for Monomial Sphere Maps -- 3 Two Detailed
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 Consequences in Source Dimension 2 -- 5 Monomial Sphere Maps in
 Higher Dimension -- 6 Sparseness in Source Dimension 2 -- 7
 Sparseness in Source Dimension at Least Three -- 8 The Optimal
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 4 Additional Examples -- 5 Behavior of f Under Various Constructions
 -- 6 Examples Involving the Symmetric Group -- 7 The Symmetric
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 -- 1 Volumes -- 2 A Geometric Result in One Dimension -- 3 An
 Integral Inequality -- 4 Volume Inequalities for Polynomial and Rational
 Sphere Maps -- 5 Comparison with a Real Variable Integral Inequality
 -- 8 List of Open Problems -- Appendix Bibliography -- -- Index.

2. Record Nr.	UNINA9910155329603321
Autore	Gazhonova Veronika
Titolo	3D Automated Breast Volume Sonography : A Practical Guide // by Veronika Gazhonova
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	9783319419718
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XXII, 122 p. 96 illus., 93 illus. in color.)
Disciplina	616.07543
Soggetti	Radiology Gynecology Oncology Ultrasound
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- The history of the appearance and development of the automatic whole breast sonography (3D ABVS) -- Current state of the 3D ABVS -- 3D ABVS Technique on ACUSON S2000 ABVS -- Clinical application of 3D ABVS for breast studies -- Normal breast.- Fibroadenoma -- Breast cystic disease -- Breast cancer -- Male breast -- Mastitis -- Implants -- Breast scar deformity -- Limitations and artifacts -- Conclusion. .
Sommario/riassunto	This book introduces an exciting new method for breast ultrasound diagnostics – automated whole-breast volume scanning (3D ABVS). Scanning technique is described in detail, with guidance on scanning positions and protocols. Imaging findings are then illustrated and discussed for normal breast variants, the different forms of breast cancer, fibroadenomas, cystic disease, benign and malignant male breast disorders, mastitis, breast implants, and postoperative breast scars. In order to aid appreciation of the benefits of 3D ABVS, comparisons with findings on X-ray mammography and conventional 2D hand-held US are presented. Readers will be especially impressed by the convincing demonstration of the advantages of the new method for diagnosis of breast cancer in women with dense glandular tissue. In enabling readers to learn how to perform and interpret 3D ABVS, this

book will be of great value for all who are embarking on its use. It will also serve as a welcome reference for radiologists, oncologists, and ultrasonographers who already have some familiarity with the technique.
