

1. Record Nr.	UNINA9910799491303321
Autore	Friedman Michael <1942->
Titolo	On Joachim Jungius' Texturæ Contemplatio : Texture, Weaving and Natural Philosophy in the 17th Century // Michael Friedman
Pubbl/distr/stampa	Cham, Switzerland : , : Springer Nature Switzerland AG , , [2023] ©2023
ISBN	3-031-40881-0
Edizione	[First edition.]
Descrizione fisica	1 online resource (416 pages)
Collana	International Archives of the History of Ideas Archives Internationales d'histoire des Idees Series ; ; Volume 249
Disciplina	746.09
Soggetti	Textile fabrics - History
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Acknowledgments -- Contents -- Chapter 1: Introduction: Textiles, Texture and Natural Philosophy in the 17th Century -- 1.1 On Jungius, His Nachlass and Texturæ Contemplatio -- 1.1.1 Texturæ Contemplatio: Structure, Content and History of Transmission -- 1.2 Texturæ Contemplatio Between the Two Narratives? -- 1.2.1 On Texture and Weaving Metaphors -- 1.3 The Structure of the Book -- Abbreviations -- Bibliography -- Chapter 2: The Historical, Scientific and Philosophical Background of Texturæ Contemplatio -- 2.1 Textile Practices, Looms and Textile Artisans in the 17th Century -- 2.1.1 Global developments in the textile industry: the stocking frame -- 2.1.2 Global developments in the textile industry: the ribbon loom -- 2.1.3 Local developments, unique machines, specific notations -- 2.1.3.1 The drum-machine and the crumb-machine -- 2.1.3.2 Local notation techniques -- 2.2 Natural Philosophers and Textile Practices in the 17th Century -- 2.2.1 Prologue in the 16th century: from Recorde's foundation of "Geometrye" to de Alcega's Libro de geometria -- 2.2.2 The 17th century: Bacon and Descartes. Weaving between empiricism and rationalism -- 2.2.3 Hartlib's "petit mystere" -- 2.2.4 Gassendi's "woven atoms" -- 2.2.5 Hooke and Power: textiles through the magnifying glass -- 2.2.6 Comenius, Boyle, Locke: metaphysically unfolding the notion of 'texture' -- 2.2.7 The end of the 17th century: the (too) many ramifications of 'texture' --

Abbreviations -- Bibliography -- Chapter 3: The Translation of Jungius' *Texturæ Contemplatio* -- 3.1 On the structure of the translation of *Texturæ Contemplatio* -- 3.2 The Translation of *Texturæ Contemplatio* -- 3.3 Appendix: Glossary of German and Latin textile-related terms -- Bibliography -- Chapter 4: On Jungius' *Texturæ Contemplatio* -- 4.1 Textual Analysis of *Texturæ Contemplatio*: Order, Form and Variations. 4.1.1 The current physical arrangement -- 4.1.3 Conclusion: structuring and restructuring -- 4.2 Mathematical Reflections and Empirical Investigations -- 4.2.1 Jungius and the role of mathematics -- 4.2.2 How should one practice geometry? -- 4.2.3 A geometry of weaving in *Texturæ Contemplatio*? -- 4.2.3.1 'Definitions' and 'theorems' -- 4.2.3.2 Arithmetical reflections -- 4.2.3.3 Jungius on 'situs' and 'ad scientiam situs' -- 4.2.3.4 Knitting vs. weaving: sinuous curves, lettered threads -- 4.2.3.5 Detour: Leibniz and Vandermonde on knitted structures -- 4.2.4 Jungius and the structure of materials -- 4.2.4.1 Jungius on the notion of 'textura' -- 4.2.5 Optical investigations: microscope, optics and diagrammatic observations -- 4.2.6 Conclusion: 'textura' as a rhizomatic notion -- 4.3 Jungius on Artisanal Practices I: Classification and Terminology of Weaves and Textiles -- 4.3.1 Classification of textile practices -- 4.3.2 Invented and unclear terminology -- 4.4 Jungius on Artisanal Practices II: Artisans in Practice -- 4.4.1 Places of weaving and weavers -- 4.4.2 The practical aspects of artisanal practices: weaving and knitting -- 4.4.3 Before (preparing the loom) and after (the fabric is ready) -- 4.5 Citations, Implicit Excerpts and Dictionaries -- 4.5.1 Explicit citations -- 4.5.2 Implicit references -- 4.5.3 Dictionaries -- 4.6 Conclusion. A Precarious Rhizome: Weaving as a Site of Knowledge -- 4.6.1 *Texturæ Contemplatio* as precarious -- 4.6.1.1 The question of credibility -- 4.6.2 From ephemeral traces to durable theorems? -- 4.6.3 *Texturæ Contemplatio* as a collection of facts? -- 4.6.4 Who trades and what is traded in the 'trading zone'? -- Abbreviations -- Bibliography -- Chapter 5: After Jungius: Leibniz on Textiles, Weaving and *Texturæ Contemplatio* -- 5.1 Leibniz on Jungius -- 5.2 Leibniz and *Texturæ Contemplatio*. 5.2.1 1675-1678: Combinatorics, "Geometria Amoeriorum" and the abstraction of "materia" -- 5.2.2 1678-1685: Copying *Texturæ Contemplatio* and Other Notes on Textiles -- 5.2.2.1 Jungius' *Logica de notionibus* -- 5.2.3 From 1687 onward: an unfulfilled wish -- 5.3 Leibniz on Tunics and Stockings -- 5.3.1 Leibniz on Folded Tunics -- 5.3.2 Leibniz on the Stocking Frame -- 5.3.2.1 Johann Joachim Becher on the stocking frame -- 5.3.3 Leibniz on the Ribbon Loom -- 5.4 Rereading *Texturæ Contemplatio*: a Fabric Unraveled -- 5.5 Appendix: Leibniz's Notes on the Stocking Frame -- Abbreviations -- Bibliography -- Chapter 6: Conclusion: A Fabric Rewoven -- Bibliography -- Abbreviations -- Bibliography -- Index.
