

Steven Dale Cutkosky

Monomialization of Morphisms from 3-Folds to Surfaces



Springer

CONTENTS

1. Introduction	1
2. Local Monomialization	9
3. Monomialization of Morphisms in Low Dimensions	11
4. An Overview of the Proof of Monomialization of Morphisms From 3 Folds to Surfaces	14
5. Notations	19
6. The Invariant ν	20
7. The Invariant ν Under Quadratic Transforms	56
8. Permissible Monoidal Transforms Centered at Curves	77
9. Power Series in 2 Variables	93
10. $A_e(X)$	109
11. Reduction of ν in a Special Case	110
12. Reduction of ν in a Second Special Case	131
13. Resolution 1	150
14. Resolution 2	163
15. Resolution 3	176
16. Resolution 4	185
17. Proof of the Main Theorem	188
18. Monomialization	189
19. Toroidalization	224
20. Glossary of Notations and Definitions	232
References	234