*Mathematical Music* offers a concise and easily accessible history of how mathematics was used to create music. The story presented in this short, engaging volume ranges from ratios in antiquity to random combinations in the 17th century, 20th-century statistics, and contemporary artificial intelligence.

This book provides a fascinating panorama of the gradual mechanization of thought processes involved in the creation of music. How did Baroque authors envision a composition system based on combinatorics? What was it like to create musical algorithms at the beginning of the 20th century, before the computer became a reality? And how does this all explain today's use of artificial intelligence and machine learning in music? In addition to discussing the history and the present state of mathematical music, Braguinski also takes a look at what possibilities the near future of music AI might hold for listeners, musicians, and the society.

Grounded in research findings from musicology and the history of technology, and written for the non-specialist general audience, this book helps both student and professional readers to make sense of today's music AI by situating it in a continuous historical context.

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*List of figures* *vii*
*Acknowledgments* *ix*

Composing with numbers (overview of this book) 1

**From continuities…** **5**

1 Not a revolution (introduction) 7
2 Since antiquity 11
3 Since the Middle Ages 19
4 Since the early modern period 25
5 Since the 19th century 34
6 Since 1900 43
7 Since 1950 51

**... to possibilities** **61**

8 Powerful and limited (introduction) 63

9 How does deep learning work? 66

10 Putting music AI in perspective 76

11 Real-world music AI 85

12 Mass-produced and still individual 93

13 Avant-garde becomes pop's aide 103

Conclusion 111

*Glossary* *119*
*Bibliography* *123*
*Index* *131*