Mathematics at the Meridian

The History of Mathematics at Greenwich

Greenwich has been a centre for scientific computing since the foundation of the Royal Observatory in 1675. Early Astronomers Royal gathered astronomical data with the purpose of enabling navigators to compute their longitude at sea. Nevil Maskelyne in the eighteenth century organised the work of computing tables for the Nautical Almanac, anticipating later methods used in safety-critical computing systems. The nineteenth century saw influential critiques of Charles Babbage's mechanical calculating engines, and in the twentieth century Leslie Comrie and others pioneered the automation of computation. The arrival of the Royal Naval College in 1873 and the University of Greenwich in 1999 has brought more mathematicians and different kinds of mathematics to Greenwich. In the twenty-first century, computational mathematics has found many new applications. Mathematics at the Meridian: The History of Mathematics at Greenwich presents an account of the mathematicians who worked at Greenwich and their achievements.

Features

- Presents a scholarly but accessible history of mathematics at Greenwich, from the seventeenth century to the present day, with each chapter written by an expert in the field
- Will appeal to astronomical and naval historians, as well as historians of mathematics and scientific computing

Front Cover Image: Unknown Artist, View of Greenwich Hospital after 1750 [c1934], Tate Archive, © Tate



MATHEMATICS



Fore	ewordvii
Prei	faceix
	torsxi
Con	tributors xiii
0.	Introduction
1.	The King's Observatory at Greenwich and the First
	Astronomers Royal: Flamsteed to Bliss
	Allan Chapman
2.	Greenwich, Nevil Maskelyne and the Solution to the
	Longitude Problem
	Mary Croarken
3.	George Biddell Airy, Greenwich and the Utility of
	Calculating Engines
	Doron D. Swade
4.	The Royal Observatory 1881–1998
5.	Mathematics Education at the Greenwich Royal Hospital School93 Bernard de Neumann
6.	The Royal Naval College
7.	Thomas Archer Hirst at Greenwich, 1873–1883
8.	A Professor at Greenwich: William Burnside and his Contributions to Mathematics
9.	The Nautical Almanac Office and L.J. Comrie: Mechanising Mathematical Table-Making at Greenwich
	Mary Croarken

10.	Artful Measures: Mathematical Instruments at the National Maritime Museum	171
11	The University of Creenwich at the Old Bayel Nevel College	101
11.	The University of Greenwich at the Old Royal Naval College Noel-Ann Bradshaw and Tony Mann	191
12.	The Mathematical Tourist in Greenwich	205
	Tony Mann	
En	dnotes	207
Ind	ex	235