

1. Record Nr.	UNISA996418256503316
Autore	Musielak Dora
Titolo	Sophie Germain [[electronic resource] ] : Revolutionary Mathematician / / by Dora Musielak
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-38375-X
Edizione	[2nd ed. 2020.]
Descrizione fisica	1 online resource (XVII, 254 p. 54 illus., 7 illus. in color.)
Collana	Springer Biographies, , 2365-0613
Disciplina	510.9
Soggetti	Mathematics History Physics Acoustics History of Mathematical Sciences History and Philosophical Foundations of Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Unforgettable Childhood -- Lessons from l'École Polytechnique -- Sophie's Sublime Arithmetica -- Chladni and His Acoustic Experiments -- Euler and the Bernoullis -- Germain and Her Biharmonic Equation -- Experiments with Vibrating Plates -- Elasticity Theory After Germain -- Germain and Fermat's Last Theorem -- Pensées de Germain -- Friends, Rivals, and Mentors -- List of Illustrations -- The Last Years -- Unanswered Questions -- Princess of Mathematics -- Germain-Gauss Correspondence -- A Bibliography on Sophie Germain -- Illustration Credits.-Index.
Sommario/riassunto	Sophie Germain stood right between Gauss and Legendre, and both publicly recognized her scientific efforts. Unlike her female predecessors and contemporaries, Sophie Germain was an impressive mathematician and made lasting contributions to both number theory and the theories of plate vibrations and elasticity. She was able to walk with ease across the bridge between the fields of pure mathematics and engineering physics. Though isolated and snubbed by her peers, Sophie Germain was the first woman to win the prize of mathematics

from the French Academy of Sciences. She is the only woman who contributed to the proof of Fermat's Last Theorem. Sophie Germain – Revolutionary Mathematician paints a rich portrait of the brilliant and complex woman, including the mathematics she developed, her associations with Gauss, Legendre, and other leading researchers, and the tumultuous times in which she lived. In this unique biography, Dora Musielak has done the impossible she has chronicled Sophie Germain's brilliance through her life and work in mathematics, in a way that is simultaneously informative, comprehensive, and accurate.

---