

Cambridge University Press

978-1-108-07044-7 - A History of the Theory of Elasticity and of the Strength of Materials: Volume 2: Part 2: Saint-Venant to Lord Kelvin (2)

Isaac Todhunter Edited by Karl Pearson

Frontmatter

[More information](#)

CAMBRIDGE LIBRARY COLLECTION

Books of enduring scholarly value

Physical Sciences

From ancient times, humans have tried to understand the workings of the world around them. The roots of modern physical science go back to the very earliest mechanical devices such as levers and rollers, the mixing of paints and dyes, and the importance of the heavenly bodies in early religious observance and navigation. The physical sciences as we know them today began to emerge as independent academic subjects during the early modern period, in the work of Newton and other 'natural philosophers', and numerous sub-disciplines developed during the centuries that followed. This part of the Cambridge Library Collection is devoted to landmark publications in this area which will be of interest to historians of science concerned with individual scientists, particular discoveries, and advances in scientific method, or with the establishment and development of scientific institutions around the world.

A History of the Theory of Elasticity and of the Strength of Materials

A distinguished mathematician and notable university teacher, Isaac Todhunter (1820–84) became known for the successful textbooks he produced as well as for a work ethic that was extraordinary, even by Victorian standards. A scholar who read all the major European languages, Todhunter was an open-minded man who admired George Boole and helped introduce the moral science examination at Cambridge. His many gifts enabled him to produce the histories of mathematical subjects which form his lasting memorial. First published between 1886 and 1893, the present work was the last of these. Edited and completed after Todhunter's death by Karl Pearson (1857–1936), another extraordinary man who pioneered modern statistics, these volumes trace the mathematical understanding of elasticity from the seventeenth to the late nineteenth century. Volume 2 (1893) was split into two parts. Part 2 covers the work of Neumann, Kirchhoff, Clebsch, Boussinesq, and Lord Kelvin.

Cambridge University Press

978-1-108-07044-7 - A History of the Theory of Elasticity and of the Strength of Materials: Volume 2: Part 2: Saint-Venant to Lord Kelvin (2)

Isaac Todhunter Edited by Karl Pearson

Frontmatter

[More information](#)

Cambridge University Press has long been a pioneer in the reissuing of out-of-print titles from its own backlist, producing digital reprints of books that are still sought after by scholars and students but could not be reprinted economically using traditional technology. The Cambridge Library Collection extends this activity to a wider range of books which are still of importance to researchers and professionals, either for the source material they contain, or as landmarks in the history of their academic discipline.

Drawing from the world-renowned collections in the Cambridge University Library and other partner libraries, and guided by the advice of experts in each subject area, Cambridge University Press is using state-of-the-art scanning machines in its own Printing House to capture the content of each book selected for inclusion. The files are processed to give a consistently clear, crisp image, and the books finished to the high quality standard for which the Press is recognised around the world. The latest print-on-demand technology ensures that the books will remain available indefinitely, and that orders for single or multiple copies can quickly be supplied.

The Cambridge Library Collection brings back to life books of enduring scholarly value (including out-of-copyright works originally issued by other publishers) across a wide range of disciplines in the humanities and social sciences and in science and technology.

Cambridge University Press

978-1-108-07044-7 - A History of the Theory of Elasticity and of the Strength of
Materials: Volume 2: Part 2: Saint-Venant to Lord Kelvin (2)

Isaac Todhunter Edited by Karl Pearson

Frontmatter

[More information](#)

A History of the Theory of Elasticity and of the Strength of Materials

VOLUME 2: PART 2
SAINT-VENANT TO LORD KELVIN (2)

ISAAC TODHUNTER
EDITED BY KARL PEARSON



CAMBRIDGE
UNIVERSITY PRESS

Cambridge University Press

978-1-108-07044-7 - A History of the Theory of Elasticity and of the Strength of
Materials: Volume 2: Part 2: Saint-Venant to Lord Kelvin (2)

Isaac Todhunter Edited by Karl Pearson

Frontmatter

[More information](#)

CAMBRIDGE
UNIVERSITY PRESS

University Printing House, Cambridge, CB2 8BS, United Kingdom

Published in the United States of America by Cambridge University Press, New York

Cambridge University Press is part of the University of Cambridge.

It furthers the University's mission by disseminating knowledge in the pursuit of
education, learning and research at the highest international levels of excellence.

www.cambridge.org

Information on this title: www.cambridge.org/9781108070447

© in this compilation Cambridge University Press 2014

This edition first published 1893

This digitally printed version 2014

ISBN 978-1-108-07044-7 Paperback

This book reproduces the text of the original edition. The content and language reflect
the beliefs, practices and terminology of their time, and have not been updated.

Cambridge University Press wishes to make clear that the book, unless originally published
by Cambridge, is not being republished by, in association or collaboration with, or
with the endorsement or approval of, the original publisher or its successors in title.

Cambridge University Press

978-1-108-07044-7 - A History of the Theory of Elasticity and of the Strength of
Materials: Volume 2: Part 2: Saint-Venant to Lord Kelvin (2)

Isaac Todhunter Edited by Karl Pearson

Frontmatter

[More information](#)

Cambridge University Press

978-1-108-07044-7 - A History of the Theory of Elasticity and of the Strength of Materials: Volume 2: Part 2: Saint-Venant to Lord Kelvin (2)

Isaac Todhunter Edited by Karl Pearson

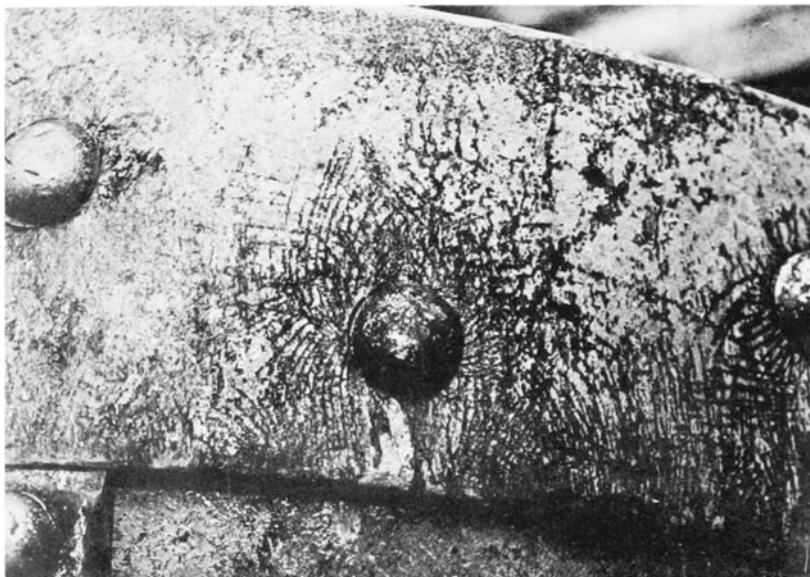
Frontmatter

[More information](#)

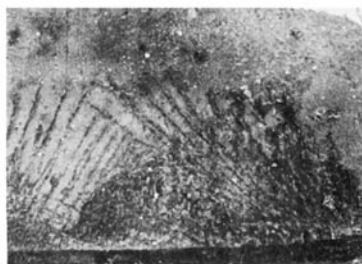
A.



B.



C.



LÜDERS CURVES IN STEEL.

A.—Square punch hole, Weardale Steel.

B.—Bent and punched butt strip of Dredger Bucket, Shelton Steel.

C.—Portion sheared off end of bar of Bush Steel ($2\frac{1}{2}'' \times \frac{3}{4}''$).*Specimens due to Mr. J. B. HUNTER: see Art. 1190.*

TITLE PAGE, Vol. II., Part II.

Cambridge University Press

978-1-108-07044-7 - A History of the Theory of Elasticity and of the Strength of
Materials: Volume 2: Part 2: Saint-Venant to Lord Kelvin (2)

Isaac Todhunter Edited by Karl Pearson

Frontmatter

[More information](#)

A HISTORY OF
THE THEORY OF ELASTICITY

AND OF

THE STRENGTH OF MATERIALS

FROM GALILEI TO THE PRESENT TIME.

BY THE LATE

ISAAC TODHUNTER, D.Sc., F.R.S.

EDITED AND COMPLETED

FOR THE SYNDICS OF THE UNIVERSITY PRESS

BY

KARL PEARSON, M.A.

PROFESSOR OF APPLIED MATHEMATICS, UNIVERSITY COLLEGE, LONDON,
FORMERLY FELLOW OF KING'S COLLEGE, CAMBRIDGE.

VOL. II. SAINT-VENANT TO LORD KELVIN.

PART II.

CAMBRIDGE:

AT THE UNIVERSITY PRESS.

1893.

[*All Rights reserved.*]

Cambridge University Press

978-1-108-07044-7 - A History of the Theory of Elasticity and of the Strength of
Materials: Volume 2: Part 2: Saint-Venant to Lord Kelvin (2)

Isaac Todhunter Edited by Karl Pearson

Frontmatter

[More information](#)

Cambridge :

PRINTED BY C. J. CLAY, M.A. AND SONS,
AT THE UNIVERSITY PRESS.

Cambridge University Press

978-1-108-07044-7 - A History of the Theory of Elasticity and of the Strength of
Materials: Volume 2: Part 2: Saint-Venant to Lord Kelvin (2)

Isaac Todhunter Edited by Karl Pearson

Frontmatter

[More information](#)

Cambridge University Press

978-1-108-07044-7 - A History of the Theory of Elasticity and of the Strength of
Materials: Volume 2: Part 2: Saint-Venant to Lord Kelvin (2)

Isaac Todhunter Edited by Karl Pearson

Frontmatter

[More information](#)

ERRATA.

PART II.

Frontispiece, Specimen *B*, for butt strip, read cutting hip.

p. 282, *l.* 20 for Arts. 207—11 read Arts. 207*—11*.

p. 286, *l.* 4 from bottom for Davier read Darier.

p. 341, *l.* 4 from bottom for Art. 1863 read Art. 1563.