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My Years Assisting J. Edgar Hoover," by Paul Letersky with Gordon Dillow (Scribner) J. Edgar Hoover's life has been picked apart in other books; Paul Letersky and Gordon Dillow deliver insight that ...

Review: New insight into the complex character of Hoover

Workers now expect more - as in more than double the federal minimum wage, which last went up in 2009. Next up, a big push for more union members.

Fight for \$15 is the most effective workers

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movement of this century. Now let's aim higher.

Wealthy people who call for higher taxes aren't hypocritical. They're selfless.

In Defense of Limousine Liberals

The White House us actually trying to claim now it's the Republicans who support defunding the police. But if only we had a flashback montage of numerous Democrats expressing their explicit desire to ...

'The Five' on fear of COVID variant,
Republicans blamed for defund the police

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rhetoric

Whether you want to use or earn Bonvoy points, we found the best Marriott hotels in the US across all categories, from budget stays to luxe getaways.

The seventh book of Pappus's Collection, his commentary on the Domain (or Treasury) of Analysis, figures prominently in the history of both ancient and modern mathematics: as our chief source of information concerning several lost works of the Greek geometers Euclid and Apollonius, and as a book that

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inspired later mathematicians, among them Viète, Newton, and Chasles, to original discoveries in their pursuit of the lost science of antiquity. This presentation of it is concerned solely with recovering what can be learned from Pappus about Greek mathematics. The main part of it comprises a new edition of Book 7; a literal translation; and a commentary on textual, historical, and mathematical aspects of the book. It proved to be convenient to divide the commentary into two parts, the notes to the text and translation, and essays about the lost works that Pappus discusses. The first function of

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an edition of this kind is, not to expose new discoveries, but to present a reliable text and organize the accumulated knowledge about it for the reader's convenience. Nevertheless there are novelties here. The text is based on a fresh transcription of Vat. gr. 218, the archetype of all extant manuscripts, and in it I have adopted numerous readings, on manuscript authority or by emendation, that differ from those of the old edition of Hultsch. Moreover, many difficult parts of the work have received little or no commentary hitherto.

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Although not so well known today, Book 4 of Pappus' Collection is one of the most important and influential mathematical texts

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from antiquity. The mathematical vignettes form a portrait of mathematics during the Hellenistic "Golden Age", illustrating central problems - for example, squaring the circle; doubling the cube; and trisecting an angle - varying solution strategies, and the different mathematical styles within ancient geometry. This volume provides an English translation of Collection 4, in full, for the first time, including: a new edition of the Greek text, based on a fresh transcription from the main manuscript and offering an alternative to Hultsch's standard edition, notes to facilitate understanding of the

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steps in the mathematical argument, a commentary highlighting aspects of the work that have so far been neglected, and supporting the reconstruction of a coherent plan and vision within the work, bibliographical references for further study.

For textual studies relating to the ancient mathematical corpus the efforts by the Danish philologist, I. L. Heiberg (1854-1928), are especially significant. Beginning with his doctoral dissertation, *Quaestiones Archimedeae* (Copenhagen, 1879), Heiberg produced an astonishing series of editions

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and critical studies that remain the foundation of scholarship on Greek mathematical science. For comprehensiveness and accuracy, his editions are exemplary. In his textual studies, as also in the prolegomena to his editions, he carefully described the extant evidence, organized the manuscripts into stemmata, and drew out the implications for the state of the text. 5 With regard to his Archimedean work, Heiberg sometimes betrayed signs of the philologist's occupational disease - the tendency to rewrite a text deemed on subjective grounds to be unworthy. 6 But he did so less often

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than his prominent 7 contemporaries, and not as to detract appreciably from the value of his editions. In examining textual questions bearing on the Archimedean corpus, he attempted to exploit as much as possible evidence from the ancient commentators, and in some instances from the medieval translations. It is here that opportunities abound for new work, extending, and in some instances superseding, Heiberg's findings. For at his time the availability of the medieval materials was limited. In recent years Marshall Clagett has completed a mammoth critical edition of the medieval

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Latin tradition of Archimedes,⁸ while the bibliographical instruments for the Arabic tradition are in good order thanks to the work of Fuat Sezgin.

This book is at once an analytical study of one of the most important mathematical texts of antiquity, the Mathematical Collection of the fourth-century AD mathematician Pappus of Alexandria, and also an examination of the work's wider cultural setting. An important first chapter looks at the mathematicians of the period and how mathematics was perceived by people at large. The central chapters of

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the book analyse sections of the Collection, identifying features typical of Pappus's mathematical practice. The final chapter draws together the various threads and presents a fuller description of Pappus's mathematical 'agenda'. This is one of few books to deal extensively with the mathematics of Late Antiquity. It sees Pappus's text as part of a wider context and relates it to other contemporary cultural practices and opens avenues to research into the public understanding of mathematics and mathematical disciplines in antiquity.

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Ptolemy's Almagest is one of the most influential scientific works in history. A masterpiece of technical exposition, it was the basic textbook of astronomy for more than a thousand years, and still is the main source for our knowledge of ancient astronomy. This translation, based on the standard Greek text of Heiberg, makes the work accessible to English readers in an intelligible and reliable form. It contains numerous corrections derived from medieval Arabic translations and extensive footnotes that take account of the great progress in understanding the work made in this century,

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due to the discovery of Babylonian records and other researches. It is designed to stand by itself as an interpretation of the original, but it will also be useful as an aid to reading the Greek text.

With the publication of this book I discharge a debt which our era has long owed to the memory of a great mathematician of antiquity: to publish the "lost books" of the Conics of Apollonius in the form which is the closest we have to the original, the Arabic version of the Banu Musil. Until now this has been accessible only in Halley's Latin

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translation of 1710 (and translations into other languages entirely dependent on that). While I yield to none in my admiration for Halley's edition of the Conics, it is far from satisfying the requirements of modern scholarship. In particular, it does not contain the Arabic text. I hope that the present edition will not only remedy those deficiencies, but will also serve as a foundation for the study of the influence of the Conics in the medieval Islamic world. I acknowledge with gratitude the help of a number of institutions and people. The John Simon Guggenheim Memorial Foundation, by the

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award of one of its Fellowships for 1985-86, enabled me to devote an unbroken year to this project, and to consult essential material in the Bodleian Library, Oxford, and the Bibliotheque Nationale, Paris. Corpus Christi College, Cambridge, appointed me to a Visiting Fellowship in Trinity Term, 1988, which allowed me to make good use of the rich resources of both the University Library, Cambridge, and the Bodleian Library.

Covering both the history of mathematics and of philosophy, Descartes's Mathematical Thought reconstructs the intellectual career

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of Descartes most comprehensively and originally in a global perspective including the history of early modern China and Japan. Especially, it shows what the concept of "mathesis universalis" meant before and during the period of Descartes and how it influenced the young Descartes. In fact, it was the most fundamental mathematical discipline during the seventeenth century, and for Descartes a key notion which may have led to his novel mathematics of algebraic analysis.

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