

CINEMATICA DEL TRAUMA Y TRIAGE

Todos los cuerpos en movimiento van desarrollando energía cinética, lo cual es igual a la masa por la velocidad al cuadrado, $E=MC^2$

- Cuando más velocidad toma un cuerpo o lleva un cuerpo, más energía va desplazando.
- Primera ley de la termodinámica, la energía no se crea ni se destruye solo se transforma

Cinemática del Trauma:

Estudio del origen de las fuerzas que producen deformaciones mecánicas y respuestas fisiológicas en el organismo del paciente traumatizado. (ATLS)

- En todo golpe existe un daño intrínseco (no se ve) y daño extrínseco (se ve)

Fases del evento traumático

- PRE-EVENTO: fase prevención ➤ Condición previa del paciente antes de ocurrir el evento; se relaciona con los antecedentes y comportamientos.
- EVENTO: fase de interacción huésped — objeto en movimiento (triple impacto) ➤ Ejemplo: una mujer que viene conduciendo a 50km.
- POST EVENTO: identificación de los eventos biomecánicos que estuvieron involucrados (huésped y objeto en movimiento) e inferir que lesiones estarían asociadas a la acción de dichas fuerzas

- Lo que mata a los pacientes es la desaceleración porque es lo que produce el intercambio de energía

Un poquitín de física $\sum F = 0$

1ra Ley de Newton: Un cuerpo en reposo permanecerá en reposo a menos que una fuerza se aplique en él.

2da ley de Newton: Mientras más acelerado viene un cuerpo, mayor cantidad de fuerza se va a liberar.

Momentum: Cantidad de movimiento que tiene un cuerpo. La masa por la velocidad.

$$F = m$$

Primera Ley de la termodinámica: La energía no se pierde se transforma.

$$P = M \times V \text{ (Kg M)}$$

EVENTO: (PRIMER IMPACTO)



- Se produce el choque contra el objeto inanimado lo cual produce que el vehículo se deforme.

- La deformación de un vehículo es directamente proporcional a la deformación que se genere dentro, es decir la persona al interior.

- Las lesiones por trauma son evolutivas, siempre para peor

Sochetannaia Travma

Mark Steyvers



Sochetannaia Travma:

Reviewing **Sochetannaia Travma**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Sochetannaia Travma**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

https://archive.kdd.org/public/virtual-library/default.aspx/The_Black_Crowes_Shake_Your_Money_Maker_Guitarvocal_Playitlikeitisguitar.pdf

Table of Contents **Sochetannaia Travma**

1. Understanding the eBook **Sochetannaia Travma**
 - The Rise of Digital Reading **Sochetannaia Travma**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Sochetannaia Travma**
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an **Sochetannaia Travma**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Sochetannaia Travma**
 - Personalized Recommendations
 - **Sochetannaia Travma** User Reviews and Ratings

- Sochetannaia Travma and Bestseller Lists
- 5. Accessing Sochetannaia Travma Free and Paid eBooks
 - Sochetannaia Travma Public Domain eBooks
 - Sochetannaia Travma eBook Subscription Services
 - Sochetannaia Travma Budget-Friendly Options
- 6. Navigating Sochetannaia Travma eBook Formats
 - ePub, PDF, MOBI, and More
 - Sochetannaia Travma Compatibility with Devices
 - Sochetannaia Travma Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sochetannaia Travma
 - Highlighting and Note-Taking Sochetannaia Travma
 - Interactive Elements Sochetannaia Travma
- 8. Staying Engaged with Sochetannaia Travma
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sochetannaia Travma
- 9. Balancing eBooks and Physical Books Sochetannaia Travma
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sochetannaia Travma
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sochetannaia Travma
 - Setting Reading Goals Sochetannaia Travma
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sochetannaia Travma
 - Fact-Checking eBook Content of Sochetannaia Travma
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Sochetannaia Trauma Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In today's fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free Sochetannaia Trauma PDF books and manuals is the internet's largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-to-use website interface and customizable PDF generator, this platform offers a user-friendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze. This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing

financial barriers, more people can access educational resources and pursue lifelong learning, contributing to personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free Sochetannaia Travma PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of Sochetannaia Travma free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

FAQs About Sochetannaia Travma Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Sochetannaia Travma is one of the best book in our library for free trial. We provide copy of Sochetannaia Travma in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Sochetannaia Travma. Where to download Sochetannaia Travma online for free? Are you looking for Sochetannaia Travma PDF? This is definitely going to save you time and cash in something you should think about.

Find Sochetannaia Travma :

the black crows shake your money maker guitarvocal playitlikeituitar

the bitter winds of love barbara cartland 76

the biogram

the blue of modern black powder values second edition

the boundary integral equation method for porous media flow.

the boundaries of twilight czechoslovak writing from the new world many minnesotas project no 6

the bibliographic record and information technology

the boston money tree

the black watch royal highland regimentthe 42nd regiment of foot

the big bite of barbecues

the bottom lines to life paperback by cory robert

the board behind closed doors with

the big golden of knights and castles

the body politic

the black death natural and human disaster in medieval europe

Sochetannaia Travma :

the satires epigrams and verse letters john donne oxford - Oct 07 2023

web the satires epigrams and verse letters john donne a clarendon press publication oxford english texts an authoritative text
introduction commentary notes and scholarly apparatus

the satires epigrams and verse letters goodreads - Nov 27 2022

web a scholarly edition of the satires epigrams and verse letters by john donne the edition presents an authoritative text
together with an introduction commentary notes and scholarly apparatus

9780198118428 the satires epigrams and verse letters oxford - Dec 29 2022

web the satires epigrams and verse letters by donne john and a great selection of related books art and collectibles available
now at abebooks co uk 9780198118428 the satires epigrams and verse letters oxford english texts by donne john abebooks

the satires epigrams and verse letters abebooks - Jul 24 2022

web jan 25 2019 the satires epigrams and verse letters donne john milgate w edited with introduction and commentary by

published by oxford university press oxford 1967

satires and epistles modern english verse translation - Feb 16 2022

web apr 15 2002 satires and epistles modern english verse translation horace bovie smith palmer on amazon com free shipping on qualifying offers satires and epistles modern english verse translation

the satires epigrams and verse letters oxford english texts by - May 22 2022

web plete poems of john donne epigrams verse letters satire structure of verse satire britannica s y l l a b u s the satires epigrams and verse letters john donne satires epigrams and verse letters john donne the plete poetry and selected prose of john donne by the satires epigrams and verse letters oxford english

the satires epigrams and verse letters c oet t oxford - Jun 03 2023

web a scholarly edition of the satires epigrams and verse letters by john donne the edition presents an authoritative text together with an introduction commentary notes and scholarly apparatus the satires epigrams and verse letters c oet t oxford english texts mitpressbookstore

the project gutenber ebook of english satires by various et al - Aug 25 2022

web jun 24 2005 marston manifests more vigour and nervous force in his satires than hall but exhibits less elegance and ease in versification in charles fitz geoffrey s affaniæ a set of latin epigrams printed at oxford in 1601 marston is complimented as the second english satirist or rather as dividing the palm of priority and excellence in english satire with hall

the satires epigrams and verse letters oxford english texts - Jun 22 2022

web the satires epigrams and verse letters oxford english texts lists this edition is on 0 lists are you sure you want to remove the satires epigrams and verse letters oxford english texts from this list

the satires epigrams and verse letters of john donne - Sep 25 2022

web oxford clarendon p 1967 ris ty book ur lib ugent be catalog rug01 001266970 id rug01 001266970 la eng ti the satires epigrams and verse letters of john donne py 1967 pb oxford clarendon p au donne john 1572 1631 viaf 73852666 au milgate w role edt er

the satires epigrams and verse letters worldcat org - Jan 30 2023

web a scholarly edition of satires epigrams and verse letters by john donne the edition presents an authoritative text together with an introduction commentary notes and scholarly apparatus

the satires epigrams and verse letters oxford english texts - Oct 27 2022

web the satires epigrams and verse letters oxford english texts by donne john at abebooks co uk isbn 10 0198118422 isbn 13 9780198118428 oup oxford 1967 hardcover

satires epigrams and verse letters oxford - Apr 01 2023

web list of sigla classified list of manuscripts of the satires epigrams and verse letters frontispiece close section satires epigrams and verse letters close section satyres satyre i satyre ii satyre iii satyre iv satyre v infinitati sacrum 16 augusti 1601 upon mr thomas coryats crudities in eundem macaronicon close

the satires epigrams and verse letters oxford engl pdf - Mar 20 2022

web mar 6 2023 download and install the satires epigrams and verse letters oxford engl fittingly simple satire dustin griffin 2021 03 17 here is the ideal introduction to satire for the student and for the experienced scholar an occasion to reconsider the uses problems and pleasures of satire in light of

the satires epigrams and verse letters donne john 1572 1631 - Aug 05 2023

web the satires epigrams and verse letters by donne john 1572 1631 publication date 1967 publisher oxford clarendon press collection inlibrary printdisabled trent university internetarchivebooks digitizing sponsor kahle austin foundation contributor internet archive language english

john donne the satires epigrams and verse letters edited - Sep 06 2023

web reviews 437 john donne the satires introduction and clarendon press 1967 the conscientiousness and this edition for nearly complete it in far away ill health is in itself an from oxford especially an editor of donne he and her method for emending manuscripts containing only the same lines

the satires epigrams and verse letters google books - Feb 28 2023

web a scholarly edition of the satires epigrams and verse letters by john donne the edition presents an authoritative text together with an introduction commentary notes and scholarly apparatus what people are saying write a review

the satires epigrams and verse letters oxford english texts - May 02 2023

web the satires epigrams and verse letters oxford english texts by john donne december 31 1967 oxford university press usa edition hardcover in english the satires epigrams and verse letters oxford english texts december 31 1967 edition

john donne the satires epigrams and verse letters - Jul 04 2023

web 9780198118428 published online september 2012 isbn 9780191732867 doi 10 1093 actrade 9780198118428 book 1 *the satires epigrams and verse letters oxford engl victoria moul* - Apr 20 2022

web we come up with the money for the satires epigrams and verse letters oxford engl and numerous books collections from fictions to scientific research in any way accompanied by them is this the satires epigrams and verse

the princess and the fangirl a geekerella fairytale by ashley - Sep 05 2022

web apr 2 2019 the princess and the fangirl a geekerella fairytale by ashley poston 9781683691105 booktopia booktopia has the princess and the fangirl a geekerella fairytale by ashley poston buy a discounted paperback of the princess and the

fangirl online from australia s leading online bookstore

loading interface goodreads - Jan 09 2023

web the princess and the fangirl ashley poston 3 76 15 681 ratings2 823 reviews goodreads choice award nominee for best young adult fiction 2019 the prince and the pauper gets a modern makeover in this adorable witty and heartwarming young adult novel set in the geekerella universe by national bestselling author ashley poston

the princess and the fangirl a geekerella fairytale □□24 - Mar 31 2022

web the princess and the fangirl a geekerella fairytale

the princess and the fangirl a geekerella fairytale once upon - Aug 16 2023

web the princess and the fangirl a geekerella fairytale once upon a con ashley poston amazon com tr kitap

the princess and the fangirl geekerella fandom fandom - Nov 07 2022

web the princess and the fangirl is the second book in the once upon a con series it was released on april 2 2019 the prince and the pauper gets a modern makeover in this adorable witty and heartwarming young adult novel set in the geekerella universe by national bestselling author ashley

amazon com the princess and the fangirl a geekerella - Dec 08 2022

web the princess and the fangirl a geekerella fairytale the once upon a con series book 2 audible audiobook unabridged ashley poston author eileen stevens narrator emily lawrence narrator caitlin davies narrator blackstone audio inc publisher 2more 4 5 out of 5 stars412 ratings goodreads choiceaward nominee

the princess and the fangirl a geekerella fairytale - Feb 10 2023

web from the acclaimed author of geekerella this spin on the prince and the pauper is a perfect story for geek girls of every fandom movie star jessica stone can t bear to pretend to love starfield at yet another con except her contract obligates her to do just that

the princess and the fangirl a geekerella fairytale by poston - Aug 04 2022

web buy the princess and the fangirl a geekerella fairytale by poston ashley online on amazon ae at best prices fast and free shipping free returns cash on delivery available on eligible purchase

the princess and the fangirl a geekerella fairytale 2 poston - Jul 03 2022

web the princess and the fangirl a geekerella fairytale 2 poston ashley amazon com au books

the princess and the fangirl a geekerella fairytale once upon - Jun 14 2023

web apr 2 2019 the princess and the fangirl a geekerella fairytale once upon a con ashley poston amazon co uk books

the princess and the fangirl a geekerella fairyta rainbow - Jan 29 2022

web rogue princess b r myers 2020 01 21 a princess fleeing an arranged marriage teams up with a snarky commoner to foil a

rebel plot in b r myers rogue princess a gender swapped sci fi ya retelling of cinderella princess delia knows her duty she must choose a prince to marry in order to secure an alliance and save her failing planet yet she

the princess and the fangirl a geekerella fairy tale y - Feb 27 2022

web feb 1 2023 a imogen lovelace is an ordinary fangirl on an impossible mission save her favorite character princess amara from being killed off from her favorite franchise starfield the problem is jessica stone the actress who plays princess amara wants nothing more than to leave the intense scrutiny of the fandom behind

the princess and the fangirl a geekerella fairytale once upon - Jul 15 2023

web the princess and the fangirl a geekerella fairytale once upon a con poston ashley stevens eileen lawrence emily davies caitlin amazon com tr kitap

the princess and the fangirl a geekerella fairytale poston - Jun 02 2022

web the princess and the fangirl a geekerella fairytale poston ashley davies caitlin lawrence emily amazon com au books

the princess and the fangirl a geekerella fairytale 2 once upon - May 13 2023

web apr 2 2019 the prince and the pauper gets a geekerella style makeover in this witty and heartfelt novel for those who believe in the magic of fandom now with an excerpt from bookish and the beast imogen lovelace is an ordinary fangirl on an impossible mission to save her favourite starfield character princess amara from being killed off

the princess and the fangirl once upon a con amazon com - Dec 28 2021

web mar 24 2020 the princess and the fangirl is a fantastic follow up to geekerella and i ve already ordered sequel bookish and the beast ashley poston has slowly woven her way into my heart and made me a fan

the princess and the fangirl quirk books - Oct 06 2022

web mar 24 2020 about the book the prince and the pauper gets a geekerella style makeover in this witty and heartfelt novel for those who believe in the magic of fandom now in paperback with an excerpt from bookish and the beast imogen lovelace is an ordinary fangirl on an impossible mission to save her favorite starfield character princess

the princess and the fangirl once upon a con amazon com - Apr 12 2023

web apr 2 2019 verdict a fun addition to the geekerella universe and an excellent addition to all romance collections especially lgbtq collections looking for books that focus more on the romance and less on coming out ashley leffel griffin middle school frisco tx c copyright 2011

the princess and the fangirl a geekerella fairytale once upon - Mar 11 2023

web apr 2 2019 an excellent companion novel to geekerella ashley poston accurately captures the essence of the beauty wonder and camaraderie of being in a fandom while simultaneously not shying away from the other uglier side of fandom

the princess and the fangirl a geekerella fairytale - May 01 2022

web apr 2 2019 listen free to princess and the fangirl a geekerella fairytale audiobook by ashley poston with a 30 day free trial stream and download audiobooks to your computer tablet and ios and android devices

the discarded image an introduction to medieval and - Nov 21 2022

jun 3 2023 images an illustration of a heart shape donate an illustration of text ellipses more an icon used to represent a menu that can be toggled by interacting with this icon the

c s lewis the discarded image an introduction to medieval - Dec 23 2022

it describes the image discarded by later years as the medieval synthesis itself the whole organization of their theology science and history into a single complex harmonious mental

the discarded image an introduction to medieval and - Oct 21 2022

the discarded image paints a lucid picture of the medieval world view providing the historical and cultural background to the literature of the middle ages and renaissance it describes the

discarded image introduction medieval and renaissance literature - Apr 26 2023

an introduction to medieval and renaissance literature part of canto classics author c s lewis date published march 2012 availability in stock format paperback isbn

[the discarded image an introduction to medieval and](#) - Feb 10 2022

the discarded image an introduction to medieval and renaissance literature author

c s lewis s model of the universe jstor - Apr 14 2022

the discarded image an introduction to medieval and renaissance literature quotes c s lewis this study guide consists of approximately 26 pages of chapter summaries quotes

the discarded image an introduction to medieval and - Jun 28 2023

this lewis last book was hailed as the final memorial to the work of a great scholar and teacher and a wise and noble mind

the discarded image an introduction to medieval and - Mar 26 2023

nov 5 2013 copyright in the discarded image c s lewis paints a lucid picture of the medieval world view providing the historical and cultural background to the literature of the

the discarded image wikipedia - Aug 31 2023

the discarded image an introduction to medieval and renaissance literature is a non fiction book by c s lewis it was his last book and deals with medieval cosmology and the ptolemaic universe it portrays the medieval conception of a model of the world which lewis described as the medieval synthesis itself the whole organization of their theology science and history into a single com

the discarded image an introduction to medieval and - Sep 07 2021

the discarded image an introduction to medieval and - May 28 2023

mar 29 2012 the discarded image paints a lucid picture of the medieval world view providing the historical and cultural background to the literature of the middle ages and renaissance

the discarded image an introduction to medieval and - Oct 09 2021

the discarded image an introduction to medieval and - Nov 09 2021

it describes the image discarded by later years as the medieval synthesis itself the whole organization of their theology science and history into a single complex harmonious mental

the discarded image harpercollins - Jul 18 2022

immediately download the the discarded image an introduction to medieval and renaissance literature summary chapter by chapter analysis book notes essays quotes

the discarded image an introduction to medieval and - Mar 14 2022

mar 4 2023 if you are still wondering how to get free pdf epub of book the discarded image an introduction to medieval and renaissance literature by c s lewis click on below

the discarded image an introduction to medieval and - Jun 16 2022

discarded image in delving through the heterogeneous mass of ideas to recreate a medieval image of the universe which he sees as forming the conceptual backcloth for the literature of

the discarded image an introduction to medieval and - Jul 30 2023

mar 30 2012 in stock qty 1 add to cart buy now payment secure transaction ships from amazon com sold by amazon com returns eligible for return refund or replacement within

the discarded image an introduction to medieval and - Dec 11 2021

nov 5 2013 reviewed in the united states on june 8 2012 verified purchase the discarded image an introduction to medieval and renaissance literature by c s lewis has the

the discarded image an introduction to medieval and - Sep 19 2022

the discarded image an introduction to medieval and renaissance literature lewis amazon com tr kitap

the discarded image an introduction to medieval and - Feb 22 2023

the discarded image an introduction to medieval and renaissance literature in searchworks catalog back to results select the discarded image an introduction to medieval and

the discarded image an introduction to medieval and - Jan 24 2023

no html tags allowed web page urls will display as text only lines and paragraphs break automatically attachments images or

tables are not permitted please enter your response

the discarded image an introduction to medieval and - Oct 01 2023

apr 7 2022 opensource language english a wonderful depiction of an older and fascinating imago mundi through literary

sources cambridge university press 1964 addeddate 2022 04

pdf epub the discarded image an introduction to medieval - Jan 12 2022

topics literature medieval history and criticism latin literature medieval and modern history and criticism european literature

renaissance 1450 1600 history and criticism

the discarded image an introduction to medieval and - Aug 19 2022

nov 5 2013 product details reviews in the discarded image c s lewis paints a lucid picture of the medieval world view

providing the historical and cultural background to the literature of

the discarded image an introduction to medieval - May 16 2022

the discarded image an introduction to medieval and renaissance literature setting symbolism c s lewis this study guide

consists of approximately 26 pages of chapter