



# The Development Of The Concept Of Space In The Child

**William Damon, Richard M. Lerner, K.  
Ann Renninger, Irving E. Sigel**



## **The Development Of The Concept Of Space In The Child:**

**The Development of the Concept of Space in the Child** Monique Laurenleau,1970      **The Development of the Concept of Space as Observed in Children's Drawings** Betsy Nan Hess-Behrens,1973      The Development of the Concept of Space in the Child Monique Laurendeau,1977      The Development of the Concept of Space in the Child Monique Laurendeau,Adrien Pinard,1970      *The Development of the Concept of Space in the Child* Monique Laurendeau,Adrien Pinard,1970      Child's Conception of Space Jean Piaget,2013-08-21 First published in 1997 This Volume 4 of Jean Piaget s selected works and explores the study of the concept of space or rather of the innumerable ideas involved in the concept of space which Piaget sees is for many reasons an indispensable part of child psychology      *Space and Place in Children's Literature, 1789 to the Present* Asst Prof Maria Sachiko Cecire,Dr Hannah Field,Dr Kavita Mudan Finn,Dr Malini Roy,2015-03-28 Focusing on questions of space and locale in children s literature this collection explores how metaphorical and physical space can create landscapes of power knowledge and identity in texts from the early nineteenth century to the present The contributors who include Philip Pullman discussing his relationship to space and locale analyze works from a range of sources and traditions by Sylvia Plath Gloria Anzald a Jenny Robson C S Lewis and Elizabeth Knox among others

*Textbook of Human Development* □ *A Lifespan Development Approach* Srivastava Sushila & Rani, Sudha K., *Textbook of Human Development A Lifespan Development Approach*      **Understanding Motor Development: Infants, Children, Adolescents, Adults** Jacqueline D Goodway,John C Ozmun,David L Gallahue,2019-10-23 A best selling text Understanding Motor Development Infants Children Adolescents Adults provides students and professionals with both an explanatory and a descriptive basis for the processes and products of motor development Covering the entire life span this text focuses on the phases of motor development and provides a solid introduction to the biological affective cognitive and behavioral aspects within each developmental stage The student is presented with the most up to date research and theory while the Triangulated Hourglass Model is used as a consistent conceptual framework that brings clarity to understanding infant childhood adolescent and adult motor development      *Early Childhood Development: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources,2018-12-07 A focus on the developmental progress of children before the age of eight helps to inform their future successes including their personality social behavior and intellectual capacity However it is difficult for experts to pinpoint best learning and parenting practices for young children Early Childhood Development Concepts Methodologies Tools and Applications is an innovative reference source for the latest research on the cognitive socio emotional physical and linguistic development of children in settings such as homes community based centers health facilities and school Highlighting a range of topics such as cognitive development parental involvement and school readiness this multi volume book is designed for educators healthcare professionals parents academicians and researchers interested in all aspects of early childhood development      Mathematics in Nursery

Education, Second Edition Ann Montague-Smith, 2014-05-22 This Second Edition covers the mathematics needed to teach the Early Learning Goals It has been up dated to include new research findings as well as new topics for example using number lines with young children The topics of counting number including early addition and subtraction pattern measures and shape and space are covered in detail Each chapter contains suggestions for key questions to ask in order to encourage children to discuss their mathematics and to demonstrate what they know and understand There are sections on developing problem solving skills working with parents and other adults in the nursery setting as well as detailed charts giving ideas for activities and how to assess learning and some activities planned in full The final chapter gives detailed help with planning and assessment of mathematics The book is intended for anyone working with children in the early years teachers nursery nurses classroom assistants playgroup leaders and workers child minders and day care staff It is particularly suitable as a course text for those training to be teachers either through the undergraduate route or through a PGCE and for those studying for early childhood degrees or diplomas

*Geographical Reasoning and Learning* Sonia Maria Vanzella Castellar, Marcelo Garrido-Pereira, Nubia Moreno Lache, 2021-09-15 This book presents the distinctive theoretical and methodological approaches in geography education in South America and more specifically in Brazil Chile and Colombia It highlights cartography and maps as essential tools and provides a meaningful approach to learning in geographical education thereby giving children and young people the opportunity to better understand their situations contexts and social conditions The book describes how South American countries organize their scholar curriculum and the ways in which they deal with geography vocabulary and developing fundamental concepts methodologies epistemological comprehension on categories keywords and themes in geography It also describes its use in teachers practices and learning progressions the use of spatial representations as a potent mean to visualize and solve questions and harnesses spatial thinking and geographical reasoning development The book helps to improve teaching and learning practices in primary and secondary education and as such it provides an interesting read for researchers students and teachers of geography and social studies

**Forecast** ,1924

*Human Development During Early Childhood* Mr. Rohit Manglik, 2024-03-15 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

The Social Logic of Space Bill Hillier, Julienne Hanson, 1989-01-27 The book presents a new theory of space how and why it is a vital component of how societies work The theory is developed on the basis of a new way of describing and analysing the kinds of spatial patterns produced by buildings and towns The methods are explained so that anyone interested in how towns or buildings are structured and how they work can make use of them The book also presents a new theory of societies and spatial systems and what it is about different types of society that leads them to adopt fundamentally different spatial forms From this general theory the outline of a pathology of modern

urbanism in today's social context is developed

**Hypothetical Modality** Debra Ziegeler, 2000-01-01 This book marks a new development in the field of grammaticalisation studies in that it extends the field of grammaticalisation studies from relatively homogeneous languages to those possessing well established and institutionalised second language varieties In Hypothetical Modality special reference is made to Singaporean English a native speaker L2 dialect of considerable importance in the South East Asian region and to the expression in the dialect of hypothetical modality which appears to be indistinguishable from non hypothetical modality in terms of the use of preterite or past forms of modal verbs Within a grammaticalisation framework a number of factors can be seen to be relevant to an explanation including substratum and contact features such as tense aspect marking levels of lexical retention as an individual psychological phenomenon and the fact that such dialects have a discontinuity in their development In addition the book defines pragmatic approaches to the understanding of hypothetical modality in both diachronic and synchronic terms

**Alberta Journal of Educational Research**, 1967

**Concepts and Theories of Human Development** Richard M. Lerner, 2013-05-13 A classic in the field this third edition will continue to be the book of choice for advanced undergraduate and graduate level courses in theories of human development in departments of psychology and human development This volume has been substantially revised with an eye toward supporting applied developmental science and the developmental systems perspectives Since the publication of the second edition developmental systems theories have taken center stage in contemporary developmental science and have provided compelling alternatives to reductionist theoretical accounts having either a nature or nurture emphasis As a consequence a developmental systems orientation frames the presentation in this edition This new edition has been expanded substantially in comparison to the second edition Special features include A separate chapter focuses on the historical roots of concepts and theories of human development on philosophical models of development and on developmental contextualism Two new chapters surrounding the discussion of developmental contextualism one on developmental systems theories wherein several exemplars of such models are discussed and a corresponding chapter wherein key instances of such theories life span life course bioecological and action theoretical ones are presented A new chapter on cognition and development is included contrasting systems approaches to cognitive development with neo nativist perspectives A more differentiated treatment of nature oriented theories of development is provided There are separate chapters on behavior genetics the controversy surrounding the study of the heritability of intelligence work on the instinctual theory of Konrad Lorenz and a new chapter on sociobiology A new chapter concentrates on applied developmental science

**Handbook of Child Psychology, Child Psychology in Practice** William Damon, Richard M. Lerner, K. Ann Renninger, Irving E. Sigel, 2007-07-30 Part of the authoritative four volume reference that spans the entire field of child development and has set the standard against which all other scholarly references are compared Updated and revised to reflect the new developments in the field the Handbook of Child Psychology Sixth Edition contains new chapters on such

topics as spirituality social understanding and non verbal communication Volume 4 Child Psychology in Practice edited by K Ann Renninger Swarthmore College and Irving E Sigel Educational Testing Service covers child psychology in clinical and educational practice New topics addressed include educational assessment and evaluation character education learning disabilities mental retardation media and popular culture children s health and parenting

**Handbook of Child Psychology and Developmental Science, Cognitive Processes** ,2015-03-31 The essential reference for human development theory updated and reconceptualized The Handbook of Child Psychology and Developmental Science a four volume reference is the field defining work to which all others are compared First published in 1946 and now in its Seventh Edition the Handbook has long been considered the definitive guide to the field of developmental science Volume 2 Cognitive Processes describes cognitive development as a relational phenomenon that can be studied only as part of a larger whole of the person and context relational system that sustains it In this volume specific domains of cognitive development are contextualized with respect to biological processes and sociocultural contexts Furthermore key themes and issues e g the importance of symbolic systems and social understanding are threaded across multiple chapters although every each chapter is focused on a different domain within cognitive development Thus both within and across chapters the complexity and interconnectivity of cognitive development are well illuminated Learn about the inextricable intertwining of perceptual development motor development emotional development and brain development Understand the complexity of cognitive development without misleading simplification reducing cognitive development to its biological substrates or viewing it as a passive socialization process Discover how each portion of the developmental process contributes to subsequent cognitive development Examine the multiple processes such as categorizing reasoning thinking decision making and judgment that comprise cognition The scholarship within this volume and as well across the four volumes of this edition illustrate that developmental science is in the midst of a very exciting period There is a paradigm shift that involves increasingly greater understanding of how to describe explain and optimize the course of human life for diverse individuals living within diverse contexts This Handbook is the definitive reference for educators policy makers researchers students and practitioners in human development psychology sociology anthropology and neuroscience

Eventually, you will unquestionably discover a extra experience and ability by spending more cash. nevertheless when? attain you consent that you require to acquire those every needs similar to having significantly cash? Why dont you attempt to get something basic in the beginning? Thats something that will guide you to comprehend even more almost the globe, experience, some places, considering history, amusement, and a lot more?

It is your extremely own period to undertaking reviewing habit. among guides you could enjoy now is **The Development Of The Concept Of Space In The Child** below.

[https://archive.kdd.org/About/detail/Download\\_PDFS/social%20class%20language%20and%20education.pdf](https://archive.kdd.org/About/detail/Download_PDFS/social%20class%20language%20and%20education.pdf)

## **Table of Contents The Development Of The Concept Of Space In The Child**

1. Understanding the eBook The Development Of The Concept Of Space In The Child
  - The Rise of Digital Reading The Development Of The Concept Of Space In The Child
  - Advantages of eBooks Over Traditional Books
2. Identifying The Development Of The Concept Of Space In The Child
  - 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 The Development Of The Concept Of Space In The Child
  - User-Friendly Interface
4. Exploring eBook Recommendations from The Development Of The Concept Of Space In The Child
  - Personalized Recommendations
  - The Development Of The Concept Of Space In The Child User Reviews and Ratings
  - The Development Of The Concept Of Space In The Child and Bestseller Lists
5. Accessing The Development Of The Concept Of Space In The Child Free and Paid eBooks

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

## **The Development Of The Concept Of Space In The Child Introduction**

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading The Development Of The Concept Of Space In The Child free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading The Development Of The Concept Of Space In The Child free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading The Development Of The Concept Of Space In The Child free PDF files is convenient, its important to note that copyright laws

must be respected. Always ensure that the PDF files you download are legally available for free. Many authors and publishers voluntarily provide free PDF versions of their work, but it's essential to be cautious and verify the authenticity of the source before downloading *The Development Of The Concept Of Space In The Child*. In conclusion, the internet offers numerous platforms and websites that allow users to download free PDF files legally. Whether it's classic literature, research papers, or magazines, there is something for everyone. The platforms mentioned in this article, such as Project Gutenberg, Open Library, Academia.edu, and Issuu, provide access to a vast collection of PDF files. However, users should always be cautious and verify the legality of the source before downloading *The Development Of The Concept Of Space In The Child* any PDF files. With these platforms, the world of PDF downloads is just a click away.

### **FAQs About The Development Of The Concept Of Space In The Child 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's 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's the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. *The Development Of The Concept Of Space In The Child* is one of the best books in our library for free trial. We provide a copy of *The Development Of The Concept Of Space In The Child* in digital format, so the resources that you find are reliable. There are also many eBooks of related to *The Development Of The Concept Of Space In The Child*. Where to download *The Development Of The Concept Of Space In The Child* online for free? Are you looking for *The Development Of The Concept Of Space In The Child* PDF? This is definitely going to save you time and cash in something you should think about. If you're trying to find then search around for online. Without a doubt, there are numerous of these available and many of them have the freedom. However, without a doubt, you receive whatever you purchase. An alternate way to get ideas is always to check another *The Development Of The Concept Of Space In The Child*. This method for seeing exactly what may be included and adopting these ideas to your book. This site will almost certainly help you save time and effort, money and stress. If you are looking for free books then you really should consider finding to assist you try this. Several of *The Development Of The Concept Of Space In The Child* are for sale to free

while some are payable. If you arent sure if the books you would like to download works with for usage along with your computer, it is possible to download free trials. The free guides make it easy for someone to free access online library for download books to your device. You can get free download on free trial for lots of books categories. Our library is the biggest of these that have literally hundreds of thousands of different products categories represented. You will also see that there are specific sites catered to different product types or categories, brands or niches related with The Development Of The Concept Of Space In The Child. So depending on what exactly you are searching, you will be able to choose e books to suit your own need. Need to access completely for Campbell Biology Seventh Edition book? Access Ebook without any digging. And by having access to our ebook online or by storing it on your computer, you have convenient answers with The Development Of The Concept Of Space In The Child To get started finding The Development Of The Concept Of Space In The Child, you are right to find our website which has a comprehensive collection of books online. Our library is the biggest of these that have literally hundreds of thousands of different products represented. You will also see that there are specific sites catered to different categories or niches related with The Development Of The Concept Of Space In The Child So depending on what exactly you are searching, you will be able to choose ebook to suit your own need. Thank you for reading The Development Of The Concept Of Space In The Child. Maybe you have knowledge that, people have search numerous times for their favorite readings like this The Development Of The Concept Of Space In The Child, but end up in harmful downloads. Rather than reading a good book with a cup of coffee in the afternoon, instead they juggled with some harmful bugs inside their laptop. The Development Of The Concept Of Space In The Child is available in our book collection an online access to it is set as public so you can download it instantly. Our digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Merely said, The Development Of The Concept Of Space In The Child is universally compatible with any devices to read.

### **Find The Development Of The Concept Of Space In The Child :**

social class language and education.

*soccer special*

**soaring scores in math lvl h**

~~snakes stained glass coloring~~

snow flower and the secret fan a novel

*snowballs in the drop talking it over with your librarys community*

snowfall andre deutsch childrenss

*snapshots of bloomsbury the private lives of virginia woolf and vanessa bell*

*social change revolution in england 15*

snoopy and the great pumpkin world of snoopy

soap box derby racing

*so who hasnt got problems*

smythe sewn dayplanners thai gems

**so youve got a lonely pussy**

~~so wheres the punch line~~

### **The Development Of The Concept Of Space In The Child :**

Grade 6 FSA Mathematics Practice Test Questions The purpose of these practice test materials is to orient teachers and students to the types of questions on paper-based FSA Mathematics tests. By using. Grade 6 FSA ELA Reading Practice Test Questions The purpose of these practice test materials is to orient teachers and students to the types of questions on paper-based FSA ELA Reading tests. By using. Grade 6 FSA Mathematics Practice Test Answer Key The Grade 6 FSA Mathematics Practice Test Answer Key provides the correct response(s) for each item on the practice test. The practice questions and. 2019 FSA 6th Grade Review Practice Test 1 2019 FSA 6th Grade Review. Practice Test. 1. Page 2. 2019 FSA 6th Grade Review. Practice Test. 2. Page 3. 2019 FSA 6th Grade Review. Practice Test. FSA - Grade 6 Math: Test Prep & Practice Final Exam Test and improve your knowledge of FSA - Grade 6 Math: Test Prep & Practice with fun multiple choice exams you can take online with Study.com. Grade 6 Mathematics Questions. Yes. No. Is the proportion of the punch that is cranberry juice the same in each of Chris's recipes given in his table? Is the proportion of the. FSA - Grade 6 Math: Test Prep & Practice Course FSA Grade 6 Mathematics Exam Breakdown ; Expressions and Equations, 30%, 18-19 questions ; Geometry, 15%, 9-10 questions. Grade 6 FSA ELA Writing Practice Test The purpose of these practice test materials is to orient teachers and students to the types of passages and prompts on FSA ELA Writing tests. FAST Practice Test and Sample Questions - Florida ... FAST Practice Test & Sample Questions for Grades 3-8 and High School. Check out Lumos Florida State Assessment Practice resources for Grades 3 to 8 students! The Signs and Symbols Bible: The Definitive Guide to ... This handsomely illustrated volume examines the many interpretations behind symbols from diverse cultures and eras, including natural objects, such as animals ... The Signs and Symbols Bible: The... by Madonna Gauding The Signs and Symbols Bible reveals the key ideas and sacred concepts behind over 500 signs and symbols. The Signs and Symbols Bible: The definitive guide to the ... This book gives you an opening to understand sign and symbol in many civilizations, cultures and traditions from Greek, Egypt, Christian, Jewish and Islam. The Signs and Symbols Bible: The Definitive Guide ... This handsomely illustrated volume examines the many interpretations behind symbols from diverse cultures and eras, including natural objects, such as

animals ... What Does the Bible Say About Symbols And Signs? For false christs and false prophets will arise and perform great signs and wonders, so as to lead astray, if possible, even the elect. Signs and Symbols - Scripture Union Dec 24, 2013 — We are signs and symbols in Israel from the LORD Almighty, who dwells on Mount Zion. Signs and Symbols SIGNS AND SYMBOLSA sign, in biblical Hebrew 'ot, is a mark, an object, or an event conveying some particular meaning. A sign is called mofet ("portent") ... 1670 symbols - Dictionary of Bible Themes 1670 symbols ; The rainbow: a symbol of God's covenant See also Ge 9:13; Eze 1:28; Rev 4:3 ; A stairway: a symbol of the way to God Ge 28:11-13; Jn 1:51 ; Thunder, ... The A to Z Guide to Bible Signs and Symbols - Everand Throughout the Scriptures, signs and symbols weave a consistent message of God's presence, grace, and faithfulness. This illustrated resource will help readers ... Eddy Current Array Technology Chapter (1): Eddy Current Theory ... CHAPTER (8): ARRAY SIGNAL CALIBRATION. 8.1. ARRAY SIGNAL CALIBRATION EXAMPLE. This section will show a step by step ... Eclipse Scientific EC Array - 1st Edition - NDT Supply.com This book is designed for Non-Destructive Testing (NDT) technicians, engineers adn technical people interested in learning Eddy Current Array (ECA) principles ... Eddy Current Array Technology Book - 1st Edition Full colour printed textbook of Eddy Current Array Technology for NDT Technicians. Hard cover. 302 pages. ... This book is designed for Non-Destructive Testing ( ... Eddy Current Testing Technology 1st Edition. Eddy Current Testing Technology [www.eclipsescientific.com](http://www.eclipsescientific.com). Eddy ... while an array probe is used for a much smaller sample. This is mainly due ... Application of Eddy Current Array Technology from the ... by B HEUTLING · Cited by 3 — The example shows that the transmitter is kept the same while the receiving coils are switched through. At first the arrangements in longitudinal direction are ... Eddy current array technology for the inspection of aircraft ... Calibration sample. NDT 588. 5/32 and 6/32 rivet hole. Typical cross-section. EDM notch: length .1 in from rivet shank. Thickness: through 1st skin. Page 14. 14. Eddy Current Array technology Smaller coverage for the same number of elements. Single row array. • Non uniform sensitivity. • Low sensitivity to cracks parallel to scan direction and. Large Area Eddy Current Array (ECA) in Lieu of PT & MT Automated Real-Time Eddy Current Array Inspection of ... by EA Foster · 2022 · Cited by 8 — The first thread takes each 32-bit number and separates out the first and last 16-bits of data as these correspond to the imaginary and real ...