

# Dual dynamically tunable terahertz graphene-based plasmonic induced transparency and slow light effects

Xiaojie Yang<sup>1</sup>, Hui Xu<sup>1,2,3,\*</sup> , Haiye Xu<sup>2</sup>, Ming Li<sup>2</sup>, Longhui He<sup>2</sup>, Guozheng Nie<sup>2</sup> and Zhiquan Chen<sup>2,3,\*</sup>

<sup>1</sup> School of Intelligent Engineering and Intelligent Manufacturing, Hunan University of Technology and Business, Changsha 410205, People's Republic of China

<sup>2</sup> School of Microelectronics and Physics, Hunan University of Technology and Business, Changsha 410205, People's Republic of China

<sup>3</sup> Xiangjiang Laboratory, Changsha 410205, People's Republic of China

E-mail: 1067980351@qq.com and xqchen0106@qq.com

Received 15 August 2023, revised 22 November 2023

Accepted for publication 6 December 2023

Published 13 December 2023



## Abstract

A novel single-layer graphene-based structure is designed in this article. This structure consists of two graphene strips and two graphene blocks. The components of this structure generate two bright modes and one dark mode in the terahertz region, and these three modes undergo destructive interference, leading to the phenomenon of double plasmonic induced transparency. The graphene of this structure has continuity, and the Fermi level can be adjusted by adjusting the bias voltage applied to the structure. Compared with those discontinuous structures, it is easier to achieve tuning function. The structure uses the finite-difference time-domain for data simulation, uses the coupled mode theory for theoretic calculation, and compares the transmission spectra obtained by the two methods. Through observation, it can be found that the frequency positions of the peaks and dips of the simulated transmission spectrum increase with the increase of the Fermi level, showing a perfect linear relationship, which indicates that this structure has great prospects in the modulator. In addition, the structure has achieved good results in the slow light effect, and after measurement, the peak values of group index and group delay can reach up to 380 and 0.241 ps, respectively. By utilizing these advantages, this structure can provide more possibilities for the development and research of slow light fields.

**Keywords:** plasmonics, metamaterials, integrated optics devices

## 1. Introduction

In recent years, with the increasing attention and understanding of researchers on metamaterial, graphene has entered the vision of researchers [1–4]. Graphene has the advantages of high electrical conductivity, long lifetime plasmon excitation, low loss, and easy modulation [5, 6], thus is widely used in optics [7–10], materials science [11–13], micro/nano processing [14, 15], energy [16] and other fields. With the

deepening of research, scientists have found that single-layer graphene exhibits similar properties to metals in the terahertz band, and can successfully excite surface plasmons polaritons. Graphene-based metasurfaces can also achieve plasmonic induced transparency (PIT) phenomena. The traditional electromagnetic induced transparency (EIT) [17] effect is a typical quantum coherent effect, which essentially prevents atoms at the atomic level from participating in the coupling of light under the action of the coupling field, thereby gradually reducing the absorption of weak probe light by the medium and even making it completely transparent. And PIT is a phenomenon similar to EIT that occurs at the resonant frequency

\* Authors to whom any correspondence should be addressed.

# Slow Transparency

**Eric L. Haralson**



## **Slow Transparency:**

*Slow Light* Jacob B. Khurgin, Rodney S. Tucker, 2018-10-08 One of the Top Selling Physics Books according to YBP Library Services The exotic effects of slow light have been widely observed in the laboratory However current literature fails to explore the wider field of slow light in photonic structures and optical fibers Reflecting recent research *Slow Light Science and Applications* presents a comprehensive introduction to slow light and its potential applications including storage switching DOD applications and nonlinear optics The book covers fundamentals of slow light in various media including atomic media semiconductors fibers and photonic structures Leading authorities in such diverse fields as atomic vapor spectroscopy fiber amplifiers and integrated optics provide an interdisciplinary perspective They uncover potential applications in both linear and nonlinear optics While it is impossible to account for all the captivating developments that have occurred in the last few years this book provides an exceptional survey of the current state of the slow light field

**New Horizon of Plasmonics and Metamaterials** Masafumi Kimata, Shinpei Ogawa, 2020-06-25 Plasmonics and metamaterials are growing fields that consistently produce new technologies for controlling electromagnetic waves Many important advances in both fundamental knowledge and practical applications have been achieved in conjunction with a wide range of materials structures and wavelengths from the ultraviolet to the microwave regions of the spectrum In addition to this remarkable progress across many different fields much of this research shares many of the same underlying principles and therefore significant synergy is expected This Special Issue introduces the recent advances in plasmonics and metamaterials and discusses various applications while addressing a wide range of topics in order to explore the new horizons emerging for such research

Well Oiled Alex Vines, Human Rights Watch (Organization), 2009 This 102 page report details how the dictatorship under President Teodoro Obiang Nguema Mbasogo has used an oil boom to entrench and enrich itself further at the expense of the country's people Since oil was discovered there in the early 1990s Equatorial Guinea's gross domestic product GDP has increased more than 5 000 percent and the country has become the fourth largest oil producer in sub Saharan Africa At the same time living standards for the country's 500 000 people have not substantially improved Publisher description

Relationship Randy M. Clendenin, Martha W. Homme, 2002-07 *Pictorial Photography* Paul Anderson, 1917

**The American Stationer**, 1889 Freedom in the World 2018 Freedom House, 2019-01-31 Freedom in the World the Freedom House flagship survey whose findings have been published annually since 1972 is the standard setting comparative assessment of global political rights and civil liberties The survey ratings and narrative reports on 195 countries and fifteen territories are used by policymakers the media international corporations civic activists and human rights defenders to monitor trends in democracy and track improvements and setbacks in freedom worldwide The Freedom in the World political rights and civil liberties ratings are determined through a multi layered process of research and evaluation by a team of regional analysts and eminent scholars The analysts used a broad range of sources of information

including foreign and domestic news reports academic studies nongovernmental organizations think tanks individual professional contacts and visits to the region in conducting their research The methodology of the survey is derived in large measure from the Universal Declaration of Human Rights and these standards are applied to all countries and territories irrespective of geographical location ethnic or religious composition or level of economic development      **Practical Color Photography** Edward John Wall,1922      **Freedom in the World 2019** Freedom House,2020-01-25 Freedom in the World the Freedom House flagship survey whose findings have been published annually since 1972 is the standard setting comparative assessment of global political rights and civil liberties The survey ratings and narrative reports on 195 countries and fifteen territories are used by policymakers the media international corporations civic activists and human rights defenders to monitor trends in democracy and track improvements and setbacks in freedom worldwide The Freedom in the World political rights and civil liberties ratings are determined through a multi layered process of research and evaluation by a team of regional analysts and eminent scholars The analysts used a broad range of sources of information including foreign and domestic news reports academic studies nongovernmental organizations think tanks individual professional contacts and visits to the region in conducting their research The methodology of the survey is derived in large measure from the Universal Declaration of Human Rights and these standards are applied to all countries and territories irrespective of geographical location ethnic or religious composition or level of economic development      *International Anti-Corruption Norms* Cecily Rose,2015-08-13 This book traces the creation of international anti corruption norms by states and other actors through four markedly different institutions the Organisation for Economic Co operation and Development the United Nations the Extractive Industries Transparency Initiative and the Financial Action Task Force Each of these institutions oversees an international instrument that requires states to combat corruption Yet only the United Nations oversees anti corruption norms that take the sole form of a binding multilateral treaty The OECD has by contrast fostered the development of the binding 1997 OECD Anti Bribery Convention as well as non binding recommendations and guidance associated with treaty itself In addition the revenue transparency and anti money laundering norms developed through the Extractive Industries Transparency Initiative and the Financial Action Task Force respectively take the form of non binding instruments that have no relationship with multilateral treaties The creation of international anti corruption norms through non binding instruments and informal institutions has the potential to privilege the interests of powerful states in ways that raise questions about the normative legitimacy of these institutions and the instruments they produce At the same time the anti corruption instruments created under the auspices of these institutions also show that non binding instruments and informal institutions carry significant advantages The non binding instruments in the anti corruption field have demonstrated a capacity to influence domestic legal systems that is comparable to if not greater than that of binding treaties With corruption and money laundering at the forefront of political debate International Anti Corruption Norms provides timely expertise on

how states and international institutions grapple with these global problems      **The Complete Oil Painter** Brian Gorst,2004-01-01 Oils are perhaps the most versatile of all paint mediums Yet for many artists oil painting is either shrouded in mystique or considered very difficult Filled with clear step by step instructions and surefire strategies The Complete Oil Painter is an essential one stop guide to becoming an expert in every aspect of this medium Artists will discover everything they need to know about materials pigments supports canvases tools and equipment palettes brushes paint application wet into wet alla prima glazing impasto form and color light and dark expression color mixing exploring themes still life portraiture figure painting and much more      **Camera** ,1916      *Anti-individualism and Knowledge* Jessica Brown,2004 A persuasive monograph that answers the keyepistemological arguments against anti individualism in thephilosophy of mind

Semantic Externalism Jesper Kallestrup,2013-03 Semantic externalism is the view that the meanings of referring terms and the contents of beliefs that are expressed by those terms are not fully determined by factors internal to the speaker but are instead bound up with the environment The debate about semantic externalism is one of the most important but difficult topics in philosophy of mind and language and has consequences for our understanding of the role of social institutions and the physical environment in constituting language and the mind In this long needed book Jesper Kallestrup provides an invaluable map of the problem Beginning with a thorough introduction to the theories of descriptivism and referentialism and the work of Frege and Kripke Kallestrup moves on to analyse Putnam s Twin Earth argument Burge s arthritis argument and Davidson s Swampman argument He also discusses how semantic externalism is at the heart of important topics such as indexical thoughts epistemological skepticism self knowledge and mental causation Including chapter summaries a glossary of terms and an annotated guide to further reading Semantic Externalism an ideal guide for students studying philosophy of language and philosophy of mind      **Camera Craft** ,1905      Encyclopedia of American Poetry: The Twentieth Century Eric L. Haralson,2014-01-21 The Encyclopedia of American Poetry The Twentieth Century contains over 400 entries that treat a broad range of individual poets and poems along with many articles devoted to topics schools or periods of American verse in the century Entries fall into three main categories poet entries which provide biographical and cultural contexts for the author s career entries on individual works which offer closer explication of the most resonant poems in the 20th century canon and topical entries which offer analyses of a given period of literary production school thematically constructed category or other verse tradition that historically has been in dialogue with the poetry of the United States      *The Wesleyan Tradition* Michael Collier,2012-08-22 Since issuing its first volumes in 1959 the Wesleyan poetry program has challenged the reigning aesthetic of the time and profoundly influenced the development of American poetry One of the country s oldest programs its greatest achievement has been the publication of early works by yet undiscovered poetry who have since become major awarded Pulitzer and Bollingen prizes National Book Awards and many other honors At a time when other programs are being phased out Wesleyan takes this opportunity to celebrate its distinguished history and reaffirm its

commitment to poetry with publication of *The Wesleyan Tradition* Drawing from some 250 volumes editor Michael Collier documents the wide ranging impact of these works In his introduction he describes the literary and cultural context of American poetics in more recent decades tracing the evolution of the Deep Image and Confessional movements of the 50s and 60s and exploring the emergence of the prose lyric style Although the success of the Wesleyan program has inspired its share of imitators no other program has had such a fundamental impact Works by the eighty six poets included her both document and celebrate that contribution     **The Photographic Journal of America ...** ,1888     The Encyclopaedia Britannica ,1902     *Living in the Comfort Zone* Rokelle Lerner,2010-04-12 Here is one of the most useful books on relationships you will ever read This book challenges you to explore the unknown depths of the soul and claim your individuality while learning to connect with others in a healthy way The term comfort zone describes the internal sanctuary you create by developing and maintaining your boundaries Only through conscious creation of your comfort zone can you develop the ability to be present in body mind and spirit in order to create healthy relationships Only by defining yourself can you connect with others Rokelle Lerner addresses the practical issues of maintaining both your separateness and your sacred domain of connection she explains how you can walk a spiritual path with practical feet Lerner has filled this book with her clients personal stories modeling potential problems that can arise in relationships due to unformed or violated boundaries You will learn how to stop boundary intruders and boundary distancers mend the body and soul deal with shame heal emotional intellectual and spiritual boundaries set limits unlock bonding patterns and sustain your comfort zones while you do the soul work required for further personal growth

Immerse yourself in the artistry of words with Experience Art with is expressive creation, Immerse Yourself in **Slow Transparency** . This ebook, presented in a PDF format ( PDF Size: \*), is a masterpiece that goes beyond conventional storytelling. Indulge your senses in prose, poetry, and knowledge. Download now to let the beauty of literature and artistry envelop your mind in a unique and expressive way.

<https://archive.kdd.org/data/scholarship/default.aspx/the%20cellular%20and%20molecular%20biology%20of%20human%20cancer%20genesis%20bristol%20myers%20cancer%20symposia%202011.pdf>

## **Table of Contents Slow Transparency**

1. Understanding the eBook Slow Transparency
  - The Rise of Digital Reading Slow Transparency
  - Advantages of eBooks Over Traditional Books
2. Identifying Slow Transparency
  - 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 Slow Transparency
  - User-Friendly Interface
4. Exploring eBook Recommendations from Slow Transparency
  - Personalized Recommendations
  - Slow Transparency User Reviews and Ratings
  - Slow Transparency and Bestseller Lists
5. Accessing Slow Transparency Free and Paid eBooks
  - Slow Transparency Public Domain eBooks
  - Slow Transparency eBook Subscription Services

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

### Slow Transparency 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 Slow Transparency 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 Slow Transparency 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 Slow Transparency 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 its essential to be cautious and verify the authenticity of the source before downloading Slow Transparency. In conclusion, the internet offers numerous platforms and websites that allow users

to download free PDF files legally. Whether its 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 Slow Transparency any PDF files. With these platforms, the world of PDF downloads is just a click away.

### **FAQs About Slow Transparency 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 webbased 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. Slow Transparency is one of the best book in our library for free trial. We provide copy of Slow Transparency in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Slow Transparency. Where to download Slow Transparency online for free? Are you looking for Slow Transparency PDF? This is definitely going to save you time and cash in something you should think about. If you trying to find then search around for online. Without a doubt there are numerous these available and many of them have the freedom. However without doubt you receive whatever you purchase. An alternate way to get ideas is always to check another Slow Transparency. This method for see exactly what may be included and adopt 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 Slow Transparency 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 Slow Transparency. 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 Slow Transparency To get started finding Slow Transparency, 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 Slow Transparency So depending on what exactly you are searching, you will be able to choose ebook to suit your own need. Thank you for reading Slow Transparency. Maybe you have knowledge that, people have search numerous times for their favorite readings like this Slow Transparency, 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. Slow Transparency 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, Slow Transparency is universally compatible with any devices to read.

### **Find Slow Transparency :**

*the cellular and molecular biology of human carcinogenesis bristol-myers cancer symposia 11*

the chasm of fire

**the challenge of the prairie**

*the change two heritage of horror heritage*

**the chinese womens movement between state and market**

the changer and the changed a working guide to personal change

*the case of the baker street irregular*

~~the carpenters journey to the cross and beyond~~

**the changing balance of power in the persian gulf**

the chitepo assassination panafrican childrens series

~~the chance takers~~

the child savers the invention of delinquency

**the caste and class controversy**

**the ceremonial confessions**

~~the changing experience of women~~

## Slow Transparency :

Perl Programming Interview Questions You'll Most Likely ... Perl Programming Interview Questions You'll Most Likely Be Asked is a perfect companion to stand ahead above the rest in today's competitive job market. Top Perl Interview Questions and Answers (2023) Learn and Practice on almost all coding interview questions asked historically and get referred to the best tech companies. Perl Interview Questions Dear readers, these Perl Programming Language Interview Questions have been designed specially to get you acquainted with the nature of questions you may ... Top 25 Perl Interview Questions You Should Prepare in 2023 Jun 27, 2023 — Top Perl Interview Questions. Enlisted below are the most frequently asked Perl Scripting Interview Questions that were answered by experts. Perl Scripting Interview Questions PERL Scripting Interview Questions and Answers □ Real-time Case Study Questions □Frequently Asked □Curated by Experts □Download Sample Resumes. Top 50 PERL Interview Questions and Answers for 2023 Discover the top PERL Interview Questions and Answers, ranging from the basic to the technical, to help you be ready for your interview and succeed in it on ... Top Perl Interview Questions and Answers - YouTube Most asked Perl Interview Questions and Answers May 22, 2012 — Most asked Perl Interview Questions and Answers ... What is Perl one-liner? There are two ways a Perl script can be run: a)from a command line, ... Perl Interview questions for freshers and experienced Here is the collection of the most frequently asked Perl interview questions. ... What is Perl one-liner and where you will use it? What are the ... Top 72 Perl Interview Questions and Answers (2023) Below are the Perl Scripting interview questions and answers for experienced candidates: 15) How the interpreter is used in Perl? Every Perl program must be ... Banking and Financial Institutions | Wiley Online Books Jul 25, 2011 — A practical guide to the evolving world of banking and financial institutions Due to various factors, ranging from the global financial ... Banking and Financial Institutions: A Guide for Directors ... Filled with in-depth insights and expert advice, Banking and Financial Institutions examines the essential aspects of this discipline and shows you what it ... Banks & Financial Institutions - U.S. Government Bookstore | Where can you find official government publications about banks and financial institutions? This collection provides many official publications relating to ... Banking & Financial Institutions - Publications Publications ; August 21, 2023 · The Corporate Transparency Act: What banks need to know about the new federal reporting obligation ; July 21, 2023 · SBA New Final ... Journal of Banking & Finance The Journal of Banking and Finance (JBF) publishes theoretical and empirical research papers spanning all the major research fields in finance and banking. The Law of Banking and Financial Institutions Book overview. The Fourth Edition of The Law of Banking and Financial Institutions<\B> brings exciting renovations to a classic casebook. Comprehensive ... Publications By Subject Bank deposits Banking Commercial banks Financial crises Financial institutions Financial sector policy and analysis Loans Securities Stress testing. Title ... FDIC: Quarterly Banking Profile The Quarterly Banking Profile is a quarterly publication that provides the earliest comprehensive summary of financial results for all FDIC-insured institutions ... Banking And

Financial Institutions Publication And ... Banking And Financial Institutions Publication And Financial pdf. Banking And Financial Institutions Publication And Financial pdf download. Journal of Banking and Finance Management The journal covers a wide range of topics, including financial institutions ... The Journal of Banking and Finance Management aims to publish high-quality ... Lion: A Long Way Home Young Readers' Edition Book details · Reading age. 10 - 14 years · Print length. 272 pages · Language. English · Grade level. 5 - 6 · Lexile measure. 1040L · Dimensions. 5.06 x 0.73 x ... Lion: A Long Way Home Young Readers' Edition The young readers' edition of the true story that inspired Lion, the Academy Award nominated film starring Dev Patel, David Wenham, Rooney Mara, Lion: A Long Way Home Young Readers' Edition Both the book and the film are very touching. This true story is very well written and puts you in the shoes of Saroo who, as an adult, wants to find back his ... Lion: A Long Way Home Young Readers' Edition Lion: A Long Way Home Young Readers' Edition. \$8.99. The young readers' edition of the true story that inspired Lion, the Academy Award nominated film starring ... Lion-A Long Way Home Young Readers' Edition The young readers' edition of the true story that inspired Lion, the Academy Award nominated film starring Dev Patel, David Wenham, Rooney Mara, ... Lion: A Long Way Home Young Readers' Edition Synopsis: The young readers' edition of the true story that inspired Lion, the Academy Award nominated film starring Dev Patel, David Wenham, Rooney Mara, and ... Lion: A Long Way Home (Young Readers' Edition) Saroo grows older, discovering a passion for sports and working hard to be successful in high school. Saroo thinks of his family in India often, but it takes ... A Long Way Home Young Readers' Edition (Paperback) Feb 28, 2017 — The young readers' edition of the true story that inspired Lion, the Academy Award nominated film starring Dev Patel, David Wenham, Rooney Mara, ... Lion: A Long Way Home Young Readers' Edition Feb 28, 2017 — This edition features new material from Saroo about his childhood, including a new foreword and a Q&A about his experiences and the process of ... Lion: A Long Way Home Young Readers' Edition This inspirational true story of survival and triumph against incredible odds is now a major motion picture starring Dev Patel, David Wenham and Nicole Kidman.