



THE SOCIAL PSYCHOLOGY OF INTERGROUP RELATIONS

William G. Austin and Stephen Worchel

Social Psychology Intergroup Relations

Dominic Abrams, Michael A. Hogg



Social Psychology Intergroup Relations:

The Social Psychology of Intergroup Relations William G. Austin, Stephen Worchel, 1979 Social Psychology and Intergroup Relations Michael Billig, 1976 Differentiation Between Social Groups Henri Tajfel, 1978 **Psychology of Intergroup Relations** Stephen Worchel, William G. Austin, 1997 **The Social Psychology of Intergroup and International Conflict Resolution** Ronald J. Fisher, 2012-12-06 Social Identifications Dominic Abrams, Michael A. Hogg, 2006-06-07 The authors of Social Identifications set out to make accessible to students of social psychology the social identity approach developed by Henri Tajfel John Turner and their colleagues in Bristol during the 1970s and 1980s Michael Hogg and Dominic Abrams give a comprehensive and readable account of social identity theory as well as setting it in the context of other approaches and perspectives in the psychology of intergroup relations They look at the way people derive their identity from the social groups to which they belong and the consequences for their feelings thoughts and behaviour of psychologically belonging to a group They go on to examine the relationship between the individual and society in the context of a discussion of discrimination stereotyping and intergroup relations conformity and social influence cohesiveness and intragroup solidarity language and ethnic group relations and collective behaviour Social Identifications fills a gap in the literature available to students of social psychology The authors presentation of social identity theory in a complete and integrated form and the extensive references and suggestions for further reading they provide will make this an essential source book for social psychologists and other social scientists looking at group behaviour Intergroup Relations Sabine Otten, Kai Sassenberg, Thomas Kessler, 2009-06-09 This book analyses recent developments in intergroup research It diverges from classical approaches that looked at diverse needs and motives focussing not on what motivates intergroup behaviour but on how intergroup behavior functions **Intergroup Relations** Marilynn B. Brewer, Norman Miller, 1996 This book presents a social psychological approach to the study of intergroup relations to help readers understand the causes and consequences of the distinction between ingroups those groups to which an individual belongs and outgroups social groups that do not include the individual as a member the apparently universal propensity to differentiate the social world into us and them **Social Psychology of Intergroup Reconciliation** Arie Nadler, Thomas Malloy, Jeffrey D. Fisher, 2008-03-10 For the most part groups and nations have blamed competition for scarce and coveted resources as an important source of conflict claiming that resolution depends on mutual agreement concerning how to divide these resources The present volume focuses on the removal of psychological barriers e g lack of trust feelings of victimization perceived lack of power as a way to end conflict Social psychology is uniquely equipped both theoretically and methodologically to deal with this challenge **The Social Psychology of Intergroup Conflict** Wolfgang Stroebe, Arie W. Kruglanski, Daniel Bar-Tal, Miles Hewstone, 2012-12-06 The area of intergroup relations and social conflict has once again become a major focus of social psychological theorizing and research One of the consequences of this advance in knowledge is that social psychologists have

increasingly been called upon to apply their ideas in order to advise on existing conflicts The significant contribution of this book is the way it builds on the research and theory of intergroup conflict and then applies this knowledge to the field The areas discussed include industrial conflicts interethnic conflicts and intergroup conflicts The chapters range from reports of experimental laboratory research through field studies to theoretical conceptual contributions The new advances offered by this broad spectrum of topics will be of interest not only to social psychologists but also to sociologists and political scientists

Social Identity and Intergroup Relations Henri Tajfel, 2010-06-24 This study explores the relationship between social groups and their conflicts

Blackwell Handbook of Social Psychology Rupert Brown, Sam Gaertner, 2008-04-15 This volume will provide an authoritative state of the art overview of the field of intergroup processes The volume is divided into nine major sections on cognition motivation emotion communication and social influence changing intergroup relations social comparison self identity methods and applications Provides an authoritative state of the art overview of the field of intergroup processes Divided into nine major sections on cognition motivation emotion communication and social influence changing intergroup relations social comparison self identity methods and applications Written by leading researchers in the field Referenced throughout and include post chapter annotated bibliographies so readers can access original research articles in order to further their study Now available in full text online via xreferplus the award winning reference library on the web from xrefer For more information visit www.xreferplus.com

Theories of Intergroup Relations Fathali M. Moghaddam, Donald M. Taylor, 1994-06-30 As the world faces an array of increasingly pervasive and dangerous social conflicts race riots ethnic cleansing the threat of terrorism labor disputes and violence against women children and the elderly to name a few the study of how groups relate has taken on a role of vital importance to our society In this thoroughly updated and expanded second edition major international theoretical orientations to intergroup relations are outlined and critiqued with particular attention given to exciting new developments in the field Changes in approach to such enduring social issues as discrimination are discussed and new sections focus on emerging topics including affirmative action tokenism and multiculturalism

Group Conflict and Co-operation Muzafer Sherif, 2015-06-19 Originally published in 1966 the author challenges the accepted theories of group conflict of the time such as frustration and maladjustment For him conflict and its accompanying aggressiveness are features of interaction between groups and he supports this theory with a detailed experimental study of controlled groups At the time of publication Dr Otto Klineberg Director of the International Centre for Intergroup Relations at the Sorbonne wrote Social scientists everywhere owe a great debt of gratitude to Professor Sherif The distinguished series of publications for which he and his co workers are responsible have an honoured place in our libraries In particular his contributions to the field of intergroup relations are outstanding his concept of superordinate goals based on a combination of theoretical insight and brilliant experimentation has become a household word for those concerned with this significant problem In his new volume Group Conflict and Co operation he carries his analysis much

further not only describing the results of several original investigations but also building a theoretical appraisal of an extensive research literature The author has made still another significant contribution toward a better understanding of one of the most complex and disturbing phenomena of our time **Intergroup Relations** Michael A. Hogg, Dominic

Abrams, 2001 This anthology examines Love's Labours Lost from a variety of perspectives and through a wide range of materials Selections discuss the play in terms of historical context dating and sources character analysis comic elements and verbal conceits evidence of authorship performance analysis and feminist interpretations Alongside theater reviews production photographs and critical commentary the volume also includes essays written by practicing theater artists who have worked on the play An index by name literary work and concept rounds out this valuable resource **Encyclopedia of**

Group Processes and Intergroup Relations John M Levine, Michael A. Hogg, 2009-09-15 Over the past 75 years there has been a tremendous amount of theoretical and empirical research on group processes and intergroup relations by scholars in various disciplines The Encyclopedia of Group Processes and Intergroup Relations is a reflection of the growing integration of what were formerly two distinct approaches With approximately 300 entries the two volumes of this encyclopedia cover concepts ranging from conformity to diversity and from small group interaction to intergroup relations on a global scale Key Features Examines the major criteria used by researchers to define groups Conveys what behavioral scientists know and theorize about how people think feel and act when responding to ingroup and outgroup members Discusses perspectives on what happens within groups and between groups Key Themes Cognitions and Feelings Conflict and Cooperation Within Groups Group Decision Making Group Performance and Problem Solving Group Structure Identity and Self Influence and Persuasion Intergroup Relations in Society Methodology Organizations Theory Types of Groups and Subgroups

Intergroup Relations Walter G. Stephan, Cookie White Stephan, 1996 **Intergroup Contact Theory** Loris Vezzali, Sofia Stathi, 2016-12-08 Intergroup contact theory has been one of the most influential theories in social psychology since it was first formulated by Gordon Allport in 1954 This volume highlights via a critical lens the most notable recent developments in the field demonstrating its vitality and its capacity for reinvention and integration with a variety of seemingly distinct research areas In the last two decades the research focus has been on the variables that explain why contact improves intergroup attitudes and when the contact prejudice relationship is stronger Current research highlights that contact is not a panacea for prejudice but it can represent a useful tool that can contribute to the improvement of intergroup relations The book includes coverage of a number of previously under researched fields which extend the full potential of contact theory within the personality acculturation and developmental domains The chapters also examine the methodological advances in the field and the applied implications The book offers a rich picture of the state of the field and future directions for research that will be invaluable to students and scholars working in social psychology and related disciplines It aims to provide fertile ground for the development of new exciting and dynamic research ideas in intergroup

relations Group Processes and Intergroup Relations Clyde Hendrick, 1987-09 An analysis of terrorism from a social psychological perspective and an empirical exploration of the effects of cooperative learning teams in desegregated school settings are among the issues discussed in Group Processes and Intergroup Relations Providing comprehensive coverage of this rapidly expanding field this volume is a companion text to Group Processes the previous volume in the series The stimulating discussions both extend the current theories and research and generate further research and the development of more effective theories by raising methodological questions Together Volumes 8 and 9 will prove to be indispensable texts for advanced courses in psychology and organization studies *Intergroup Relations* Cookie White Stephan, 2018

Thank you very much for reading **Social Psychology Intergroup Relations**. Maybe you have knowledge that, people have look hundreds times for their favorite readings like this Social Psychology Intergroup Relations, but end up in malicious downloads.

Rather than enjoying a good book with a cup of coffee in the afternoon, instead they juggled with some infectious bugs inside their laptop.

Social Psychology Intergroup Relations is available in our book collection an online access to it is set as public so you can download it instantly.

Our book servers saves in multiple countries, allowing you to get the most less latency time to download any of our books like this one.

Kindly say, the Social Psychology Intergroup Relations is universally compatible with any devices to read

<https://archive.kdd.org/book/uploaded-files/fetch.php/sleep%20instinct.pdf>

Table of Contents Social Psychology Intergroup Relations

1. Understanding the eBook Social Psychology Intergroup Relations
 - The Rise of Digital Reading Social Psychology Intergroup Relations
 - Advantages of eBooks Over Traditional Books
2. Identifying Social Psychology Intergroup Relations
 - 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 Social Psychology Intergroup Relations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Social Psychology Intergroup Relations

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

- Fact-Checking eBook Content of Social Psychology Intergroup Relations
- 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

Social Psychology Intergroup Relations 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 Social Psychology Intergroup Relations 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 Social Psychology Intergroup Relations 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 Social Psychology Intergroup Relations 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 Social Psychology Intergroup Relations 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. Social Psychology Intergroup Relations is one of the best book in our library for free trial. We provide copy of Social Psychology Intergroup Relations in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Social Psychology Intergroup Relations. Where to download Social Psychology Intergroup Relations online for free? Are you looking for Social

Psychology Intergroup Relations 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 Social Psychology Intergroup Relations. 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 Social Psychology Intergroup Relations 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 Social Psychology Intergroup Relations. 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 Social Psychology Intergroup Relations To get started finding Social Psychology Intergroup Relations, 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 Social Psychology Intergroup Relations So depending on what exactly you are searching, you will be able to choose ebook to suit your own need. Thank you for reading Social Psychology Intergroup Relations. Maybe you have knowledge that, people have search numerous times for their favorite readings like this Social Psychology Intergroup Relations, 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. Social Psychology Intergroup Relations 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, Social Psychology Intergroup Relations is universally compatible with any devices to read.

Find Social Psychology Intergroup Relations :

sleep instinct

~~sloan career cornerstone series 9-part cd-rom set~~

slayers leyenda demoniaca 4pb2003

slabs & plates theory & design of surface

slickrock reckoning

sleeping and the dead

skin in a first look at racism

slim jim baxter

sky battles sky warriors stories of exciting air combat

slave narratives a folk history of slavery in the

slavery on the spanish frontier the colombian chocô 1680-1810

slavonic of esther

skins visions of imprisoned native amer

slim fingers beckon arch merrills new york

sky watcher mahpiya awanyanke

Social Psychology Intergroup Relations :

Robinson Crusoe | Daniel Defoe, Michael Shinagel The Second Edition of the Norton Critical Edition of Robinson Crusoe is based on the Shakespeare Head Press reprint of the first edition copy in the British ... Robinson Crusoe (Norton Critical Editions) ... Book details · Print length. 448 pages · Language. English · Publisher. W. W. Norton & Company · Publication date. December 17, 1993 · Dimensions. 5.1 x 1 x 8.4 ... Robinson Crusoe (Norton Critical Editions) Rent textbook Robinson Crusoe (Norton Critical Editions) by Defoe, Daniel - 9780393964523. Price: \$11.62. Robinson Crusoe (Norton Critical Editions): Defoe, Daniel Book details · Language. English · Publisher. Signet Classic · Publication date. January 1, 1980 · Dimensions. 5 x 0.98 x 7.99 inches · ISBN-10. 0393092313. Robinson Crusoe (Norton Critical Editions) Paperback. Published 12/1980 by W W Norton & Co Ltd. Sections: ISBN 9780393092318. List Price: \$9.95. Our Price: \$7.50 (Save 25%). Used — \$7.50. Add to cart Robinson Crusoe (Norton Critical Editions) The Second Edition of the Norton Critical Edition of Robinson Crusoe is based on the Shakespeare Head Press reprint of the first edition copy in the British ... Robinson Crusoe (Norton Critical Editions) Robinson Crusoe (Norton Critical Editions) by Defoe, Daniel - ISBN 10: 0393964523 - ISBN 13: 9780393964523 - W. W. Norton & Company - 1993 - Softcover. Robinson Crusoe (A Norton critical edition) Robinson Crusoe (A Norton critical edition) by Defoe, Daniel - ISBN 10: 0393044076 - ISBN 13: 9780393044072 - Norton - 1975 - Softcover. Robinson Crusoe - Daniel Defoe Publisher, Norton, 1975 ; Original from, the University of Michigan ; Digitized, Jan 20, 2010 ; ISBN, 0393044076, 9780393044072 ; Length, 399 pages. Robinson Crusoe (A Norton Critical Edition) Robinson Crusoe (A Norton Critical Edition) is a Used Trade Paperback available to purchase and shipped from Firefly Bookstore in Kutztown,

PA. Meaning in Language: An Introduction to Semantics and ... This book provides a comprehensive introduction to the ways in which meaning is conveyed in language, covering not only semantic matters but also topics ... Meaning in Language - Paperback - Alan Cruse A comprehensive introduction to the ways in which meaning is conveyed in language. Alan Cruse covers semantic matters, but also deals with topics that are ... An Introduction to Semantics and Pragmatics by A Cruse · 2004 · Cited by 4167 — A comprehensive introduction to the ways in which meaning is conveyed in language. Alan Cruse covers semantic matters, but also deals with topics that are ... Meaning in Language - Alan Cruse This book provides a comprehensive introduction to the ways in which meaning is conveyed in language, covering not only semantic matters but also topics ... An introduction to semantics and pragmatics. Third edition Aug 30, 2022 — This book provides an introduction to the study of meaning in human language, from a linguistic perspective. It covers a fairly broad range ... DA Cruse - an introduction to semantics and pragmatics by DA Cruse · 2004 · Cited by 4167 — A comprehensive introduction to the ways in which meaning is conveyed in language. Alan Cruse covers semantic matters, but also deals with topics that are ... An Introduction to Semantics and Pragmatics (Oxford ... This book provides a comprehensive introduction to the ways in which meaning is conveyed in language, covering not only semantic matters but also topics ... Meaning in Language - Project MUSE by H Ji · 2002 — Meaning in language: An introduction to semantics and pragmatics. By Alan Cruse. Oxford & New York: Oxford University Press, 2000. Pp. xii, 424. Paper \$24.95. (PDF) 99626614-Meaning-in-Language-an-Introduction-to ... Creating, exchanging, and interpreting meaning is ingrained in human nature since prehistoric times. Language is the most sophisticated medium of communication. Meaning in Language: An Introduction to Semantics and ... Meaning in Language: An Introduction to Semantics and Pragmatics ... This book provides a comprehensive introduction to the ways in which meaning is conveyed in ... Cat 3126 Manuals | PDF | Throttle | Fuel Injection Cat 3126 Manuals - Free download as PDF File (.pdf), Text File (.txt) or read online for free. Parts Manual Oct 6, 2001 — See “General Information” for New Parts Manual. Features. 3126B Industrial Engine. BEJ1-Up (Engine). This Parts Manual is also available in .PDF ... CAT 3126 Parts Manuals PDF CAT 3126 Parts Manuals.pdf - Free ebook download as PDF File (.pdf), Text File (.txt) or read book online for free. Caterpillar 3126 service-maintenance manuals Apr 20, 2021 — Here are a few CATERPILLAR 3126B-3126E manuals I happen to find on the net. Enjoy! I uploaded the 2mb and smaller files and posted links for ... Caterpillar 3114, 3116, 3126 Engine Service Manual Caterpillar 3114, 3116, 3126 Diesel Engine 6-in-1 Service Manual Set in Downloadable PDF Format. Factory service information for Cat 3114, 3116 and 3126 ... Caterpillar 3126 Engine Manual Mar 16, 2014 — We have a 2000 National Motorhome with a 3126 Caterpillar Engine. Does anyone know how or where we can obtain a copy of the Service Manual ... Caterpillar 3126 DOWNLOAD FILE. Recommend ... Service 3126. MVP-EF SERVICE MANUAL Caterpillar 3126 HEUI Engine The Caterpillar 3126 HEUI Engine introduces a new era of the diesel. CAT 3114, 3116, 3126 Diesel Engine Service Work Shop ... Save money and time! Instant download, no waiting. 1268 page, complete service workshop manual for

the Caterpillar 3114, 3116, 3126 diesel engines. 3126B (300hp) service manual Nov 27, 2017 — I have tried searching but am not very good at it, anyone have a link for a FREE service manual for a 3126B Cat (mine is rated at 300hp, ... Caterpillar CAT 3126 Engine Machine Service ... This service manual is a guide to servicing and repairing of the Caterpillar 3126 Engine Machine. The instructions are grouped by systems to serve the ...