

Papa Beacon, climb to and maintain flight level nine zero, return after takeoff, proceed with heading four zero until intercept the three two five radial from Las Palmas VOR (1706:08.09). 1706:09.61 KLM 4805: Ah—roger sir, we are cleared to the Papa Beacon, flight level nine zero until intercepting the three two five radial (1706:17.79). We are now at takeoff (1706:17.79).

1706:19 Tower: OK (1706:19.39) (Stand by for takeoff, I will call you when you are ready (1706:21.79)).

[Note: A squeal starts at 1706:19.39 and ends at 1706:22.06.]

[PAA: And we're still taxiing down the runway the Clipper on the seven three six (1706:23.6).]

Communication Clashes and Aircraft Crashes



FATAL WORDS

STEVEN CUSHING

Fatal Words Communication Clashes And Aircraft Crashes

Rainer Dietrich



Fatal Words Communication Clashes And Aircraft Crashes:

Fatal Words Steven Cushing, 1997-05-15 On March 27 1977 583 people died when KLM and Pan Am 747s collided on a crowded foggy runway in Tenerife the Canary Islands The cause a miscommunication between the pilot and the air traffic controller The pilot radioed We are now at takeoff meaning that the plane was lifting off but the tower controller misunderstood and thought the plane was waiting on the runway In Fatal Words Steven Cushing explains how miscommunication has led to dozens of aircraft disasters and he proposes innovative solutions for preventing them He examines ambiguities in language when aviation jargon and colloquial English are mixed when a word is used that has different meanings and when different words are used that sound alike To remedy these problems Cushing proposes a visual communication system and a computerized voice mechanism to help clear up confusing language Fatal Words is an accessible explanation of some of the most notorious aircraft tragedies of our time and it will appeal to scholars in communications linguistics and cognitive science to aviation experts and to general readers

Fighting over Words Roger W. Shuy, 2008-01-29 Most people fight over something or other and language is usually at the very center of the conflict Often the way we use language is the cause of the battle There are many areas in which fighting about language can be observed but civil law cases offer the most fertile examples of this warfare over words What did the contract actually say Was there deception in the advertising Was the warning label clear and effective Did the company evidence race or age discrimination against employees or customers Was one company's name too similar to that of another company Did the corporation plagiarize the work of another Did it fraudulently represent what its work This book is about the ways linguistic analysis describes exposes and aids disputes in 18 civil cases where language framed the battleground Roger Shuy a well known forensic linguist and consultant shows how the skills of linguistic analysis can help resolve disputed meanings while also showing how civil cases can prove to be fertile ground for linguistic scholarship He does this by collecting and analyzing cases involving contracts trademark disputes advertisements product liability copyright infringement discrimination trademark disputes and fraud controversies In each case he employs all the tools of formal linguistics to show how it can be as helpful as other physical sciences in resolving legal disagreements The work will be of interest primarily to linguists sociolinguists forensic linguists and scholars and students of law and society as well as lawyers and law students

Communication in High Risk Environments Rainer Dietrich, 2003-09-01 Eine Zigarre rauchen Zeitung lesen und sich am Kopf kratzen das kann man gleichzeitig und zwar m helos konstatiert John Searle Ein Auto im Dunkeln in eine enge Parkcke rangieren und zugleich dem Beifahrer erkl ren wo die Opernkarten sind ist heikel und mehr als heikel wenn die Ouvertre schon begonnen hat Dass die Sprachverwendung produktiv und perzeptiv eine anspruchsvolle kognitive Aktivit t ist zeigt sich wenn das kognitive System gleichzeitig andere anspruchsvolle Leistungen durchf hrt Dann vermindert sich die Leistung die eine oder die andere oder beide Die Frage nach der sprachliche Performanz unter so genannten

Doppelaufgabenbedingungen ist für die Sprachforschung so spannend wie ungewohnt Antworten darauf sind nicht nur von akademischem Interesse Im Cockpit eines Linienjets am Operationstisch und in der Leitwarte eines Kernkraftwerks verursacht eingeschränkte Kommunikationsleistung unmittelbare Gefahr In diesem Heft berichten u a Linguisten und Psycholinguisten Krifka Dietrich Human Factors Experten Helmreich Sexton Arbeitspsychologen Grote Str ter ber Prinzipien der Sprachverwendung unter Aufgabendruck und Zeitdruck Abstracts Using Language in the Cockpit Relationships with Workload and Performance J Bryan Sexton Robert L Helmreich Few events attract as much international attention as an accident involving a commercial jumbo jet airplane The public the airlines the airplane manufacturers and particularly the friends and family of passengers demand answers The work presented here illustrates the importance of flight deck communication in flight safety through a simulator study of how and what pilots communicate This investigation utilized a computer based linguistic method of text analysis as well as a micro coding of communication content Analyses of simulator transcripts demonstrated that several language dimensions were associated with higher performance fewer errors and better communication The ways in which pilots used language varied as a function of crew position and level of workload Additionally language use in the first flight of a crew pairing was associated with performance in subsequent flights Group Interaction in the Cockpit Some Linguistic Factors Manfred Krifka Silka Martens and Florian Schwarz For a number of years it has been recognized that the social dynamics of group interaction is an import factor in the origin of accidents and in the way how accidents or accident prone situations are handled in aviation cf Helmreich 1997a 1997b Factors related to interpersonal communication have been implicated in up to 80% of all aviation accidents over the past 20 years As a reaction to this Crew Resource Management CRM has been developed with the goal of rating and improving crew performance in aviation and in other fields in which professional groups interact in situations of high taskload and potential risk cf Helmreich ea 1999 As far as this can be estimated at all installing CRM techniques in the major American and European airlines has resulted in a definite improvement in the safety of commercial aviation In spite of this success of CRM practitioners in the field feel that beyond the general social dynamics of group interaction there might be potential problems relating to language and communication in such settings In this article we first summarize some aspects of previous research in this area Then we report findings from a project that one of us Manfred Krifka has carried out using transcripts of flight simulator sessions with pilots of a commercial American airline We will discuss some of the problems of this project Finally we describe an ongoing continuation of that project that uses flight simulator sessions with pilots of a commercial German airline *Group Interaction in High Risk Environments* Rainer Dietrich, Traci Michelle Chhildress, 2017-03-02 What governs the way in which people work together and handle technology in high risk environments The understanding of decision making communication and the other dimensions of team interaction within aircrews and other teams in highly stressful situations is based on a multitude of diverse factors each with its own literature and individual studies This book is about how teams function in just

such situations providing a uniquely integrated and interdisciplinary account of the dynamics and main explanatory factors of team interaction under high workload The book stems from the interdisciplinary research project Group Interaction in High Risk Environments GIHRE a Collegium of the Gottlieb Daimler and Karl Benz Foundation The goals of the project and therefore the book are to investigate analyze and understand the behavior of professional groups working in high risk environments and to develop practical suggestions for enhancing performance A central focus of this book is how groups in these professions deal with the factors that can threaten the safety and effectiveness of their task performance whether these factors are part of the environment or part of the team itself Four representative workplaces were investigated in three broad settings in aviation the cockpit of a commercial airliner in medicine the operating room and the intensive care unit of a hospital in nuclear power the control room of a nuclear power plant The international and interdisciplinary composition of the Collegium ensures the book features a variety of different methodological and conceptual approaches which are brought to bear at both theoretical and practical levels Readers working in all related fields will find value in the case descriptions the academic synthesis of the similarities between them and ways to approach new challenges specialists in applied psychology human factors and technical management will gain new insights **Attitude or Latitude?** Graham R.

Braithwaite,2017-03-02 Australia has an enviable record for airline safety No one has ever died in an accident involving a commercial jet aircraft in Australia The reasons behind this have been the source of much speculation and theories tend to focus on issues related to the natural environment and even luck However with human error being present in arguably 100% of aircraft accidents it seems reasonable that a good safety record is at least partly the consequence of human intervention This text uses Australian aviation as a case study of a safe system to explore the interactions between the natural operational and human environments Based on doctoral research including a major survey of pilot and air traffic controller perceptions the book is unusual in that it looks at positive examples in safety rather than taking the traditional reactive approach to safety deficiencies **Engineering Psychology and Cognitive Ergonomics** Don Harris,2020-03-26 This book is the third

in the series and describes some of the most recent advances and examines emerging problems in engineering psychology and cognitive ergonomics It bridges the gap between the academic theoreticians who are developing models of human performance and practitioners in the industrial sector responsible for the design development and testing of new equipment and working practices English in Global Aviation Eric Friginal,Elizabeth Mathews,Jennifer Roberts,2019-11-14 Taking readers step by step through the major issues surrounding the use of English in the global aviation industry this book provides a clear introduction to turning research into practice in the field of English for Specific Purposes ESP specifically Aviation English and a valuable case study of applied linguistics in action With both cutting edge research and evidence based practice the critical role of English in aviation is explored across a variety of contexts including the national and global policies impacting training and language assessment for pilots air traffic controllers ground staff and students English in

Global Aviation teaches readers how to apply linguistic research to real world practical settings The book uses a range of corpus based findings and related research to provide an effective analysis of the language needs of the aviation industry and an extended look at linguistic principles in action Readers are presented with case studies transcriptions radiotelephony and a clear breakdown of the common vocabulary and phrasal patterns of aviation discourse Students and teachers of both linguistics and aviation will discover the requirements and challenges of successful intercultural communication in this industry as well as insights into how to teach develop and assess aviation English language courses Flight to the Future Panel on Human Factors in Air Traffic Control Automation, Board on Human-Systems Integration, Division of Behavioral and Social Sciences and Education, National Research Council, 1997-02-11 Despite the strong safety record of the national airspace system serious disruptions occasionally occur often as a result of outdated or failed equipment Under these circumstances safety relies on the skills of the controllers and pilots and on reducing the number of aircraft in the air The current and growing pressures to increase the capacity to handle a greater number of flights has led to a call for faster and more powerful equipment and for equipment that can take over some of the tasks now being performed by humans Increasing the role of automation in air traffic control may provide a more efficient system but will human controllers be able to effectively take over when problems occur This comprehensive volume provides a baseline of knowledge about the capabilities and limitations of humans relative to the variety of functions performed in air traffic control It focuses on balancing safety with the expeditious flow of air traffic identifying lessons from past air accidents The book discusses The function of the national airspace system and the procedures for hiring training and evaluating controllers Decisionmaking memory alertness vigilance sleep patterns during shift work communication and other factors in controllers performance Research on automation and human factors in air traffic control and incorporation of findings into the system The Federal Aviation Administration s management of the air traffic control system and its dual mandate to promote safety and the development of air commerce This book also offers recommendations for evaluation the human role in automated air traffic control systems and for managing the introduction of automation into current facilities and operations It will be of interest to anyone concerned about air safety policymakers regulators air traffic managers and controllers airline officials and passenger advocates **Global Aviation English Research** Eric Friginal, Malila Prado, Jennifer Roberts, 2024-11-14 Advocating for best practices within aviation English language research this volume offers deeper insights into the practical policy based and societal contexts in which International Civil Aviation Organization ICAO language standards are embedded English is the official language for international pilot air traffic controller ATC communications mandated by the ICAO It is also the de facto universal common language for all other forms of communication including the language of maintenance technicians and maintenance manuals aeronautical engineers cabin crew ground staff and aviation business professionals In this book renowned academic experts and aviation professionals come together to explore a variety of research trends

providing an effective and efficient analysis of the language needs of the aviation industry its future directions and an extended look at linguistic principles in action Chapters engage in detail with research data case studies and concrete examples of interactional tasks transactional exchanges and radiotelephony They also examine the common vocabulary and phrasal patterns in aviation discourse required to communicate successfully in various roles and contexts within the aviation industry The result is a meaningful contribution to the global development and improvement of standards of aviation research investigations of the role of language in aviation accidents and research into language as a human factor in aviation communications customer service and intercultural mis communication **Human Factors in Aviation** Earl L.

Wiener,David C. Nagel,1988 Since the 1950s a number of specialized books dealing with human factors has been published but very little in aviation Human Factors in Aviation is the first comprehensive review of contemporary applications of human factors research to aviation A must for aviation professionals equipment and systems designers pilots and managers with emphasis on definition and solution of specific problems General areas of human cognition and perception systems theory and safety are approached through specific topics in aviation behavioral analysis of pilot performance cockpit automation advancing display and control technology and training methods *Master Airline Pilot* Steve Swauger,2023-04-28 Master

Airline Pilot offers a process for improving pilots skills in risk management situational awareness building decision making communications and crew management It links aviation human factors with practical airline operations to promote the development of master level aviation skills across the full range of pilot experience Serving as a practical guide for operational aviation challenges the book discusses exceptional events such as operations under marginal condition intervening to interdict an unsafe operation and resolving crew conflicts It also provides techniques for handling more common airline flying challenges like delays holding diverting and continuing versus aborting a deteriorating game plan The book is intended for airline pilots training captains simulator instructors and aviation students taking courses in flight safety and crew management to improve their skillset proficiency and expertise toward peak performance *Power Talk* Sarah Myers McGinty,2001-02-20 Show up on time work hard do well and rise up the corporate ladder Maybe Oral communication is the most crucial ingredient in advancement on the job In Power Talk Sarah Myers McGinty analyzes the social and psychological elements of speech in the workplace helping readers hear who s in charge and talk their way ahead Fast trackers match the right speaking style to the situation and develop a corporate voice that comes across loud and clear From the voice mail message that gets a call back to navigating a department meeting listeners will learn how to become their own best spokesperson and advocate Decision Making in Complex Environments Jan Noyes,Malcolm Cook,Yvonne

Masakowshi,2017-09-18 Many complex systems in civil and military operations are highly automated with the intention of supporting human performance in difficult cognitive tasks The complex systems can involve teams or individuals working on real time supervisory control command or information management tasks where a number of constraints must be satisfied

Decision Making in Complex Environments addresses the role of the human the technology and the processes in complex socio technical and technological systems The aim of the book is to apply a multi disciplinary perspective to the examination of the human factors in complex decision making It contains more than 30 contributions on key subjects such as military human factors team decision making issues situation awareness and technology support In addition to the major application area of military human factors there are chapters on business medical governmental and aeronautical decision making The book provides a unique blend of expertise from psychology human factors industry commercial environments the military computer science organizational psychology and training that should be valuable to academics and practitioners alike

Fallacies Arising from Ambiguity Douglas Walton,2013-03-09 We are happy to present to the reader the first book of our Applied Logic Series Walton s book on the fallacies of ambiguity is firmly at the heart of practical reasoning an important part of applied logic There is an increasing interest in artificial intelligence philosophy psychol ogy software engineering and linguistics in the analysis and possible mechanisation of human practical reasoning Continuing the ancient quest that began with Aristotle computer scientists logicians philosophers and linguists are vigorously seeking to deepen our understanding of human reasoning and argumentation Significant communities of researchers are actively engaged in developing new approaches to logic and argumentation which are better suited to the urgent needs of today s applications The author of this book has over many years made significant contributions to the detailed analysis of practical reasoning case studies thus providing solid foundations for new and more applicable formal logical systems We welcome Doug Walton s new book to our series

Dialog Theory for Critical Argumentation Douglas N. Walton,2007-09-19 Because of the need to devise systems for electronic communication on the internet multi agent computing is moving to a model of communication as a structured conversation between rational agents For example in multi agent systems an electronic agent searches around the internet and collects certain kinds of information by asking questions to other agents Such agents also reason with each other when they engage in negotiation and persuasion It is shown in this book that critical argumentation is best represented in this framework by the model of reasoned argument called a dialog in which two or more parties engage in a polite and orderly exchange with each other according to rules governed by conversation policies In such dialog argumentation the two parties reason together by taking turns asking questions offering replies and offering reasons to support a claim They try to settle their disagreements by an orderly conversational exchange that is partly adversarial and partly collaborative

Storying Domestic Violence Jarmila Mildorf,2007-01-01 A master of driving pace exotic setting and complex plotting Harold Lamb was one of Robert E Howard s favorite writers Here at last is every pulse pounding action packed story of Lamb s greatest hero Khlit the Cossack the wolf of the steppes

The Sense of Style Steven Pinker,2015-09-22 Pinker has a lot of ideas and sometimes controversial opinions about writing and in this entertaining and instructive book he rethinks the usage guide for the 21st century Don t blame the internet he says good writing has always been hard It requires imagination taking pleasure

in reading overcoming the difficult we all have in imaging what it s like to not know something we do know Publisher information *Cognitive Behavioural Systems* Anna Esposito, Antonietta M. Esposito, Alessandro Vinciarelli, Rüdiger Hoffmann, Vincent Müller, 2012-11-19 This book constitutes refereed proceedings of the COST 2102 International Training School on Cognitive Behavioural Systems held in Dresden Germany in February 2011 The 39 revised full papers presented were carefully reviewed and selected from various submissions The volume presents new and original research results in the field of human machine interaction inspired by cognitive behavioural human human interaction features The themes covered are on cognitive and computational social information processing emotional and social believable Human Computer Interaction HCI systems behavioural and contextual analysis of interaction embodiment perception linguistics semantics and sentiment analysis in dialogues and interactions algorithmic and computational issues for the automatic recognition and synthesis of emotional states **Discourse and Crisis** Antoon De Rycker, Zuraidah Mohd Don, 2013-12-15 Discourse and Crisis Critical perspectives brings together an exciting collection of studies into crisis as text and context as unfolding process and unresolved problem Crisis is viewed as a complex phenomenon that in its prevalence disruptiveness and appearance of inevitability is both socially produced and discursively constituted The book offers multiple critical perspectives in depth linguistically informed analyses of the discourses of power and collaboration implicated in crisis construal and recovery detailed examination of the critical role that language plays during the crisis life cycle and further problematization of the semiotic material complexity of crisis and its usefulness as an analytical concept The research focus is on the discursive and interactive mediation of crisis in organizational political and media texts The volume contains contributions from across the world offering a polyphonic overview of discourse and crisis research This impressive volume will be useful to researchers and academics working on the intersection of crisis language and communication It is also of interest to practitioners in organizational management politics and policy and media **Crew Resource Management** Barbara G. Kanki, José Anca, Thomas R Chidester, 2019-01-31 The new edition of Crew Resource Management reflects advancements made in the conceptual foundation as well as the methods and approaches of applying CRM in the aviation industry Because CRM training has the practical goal of enhancing flight safety through more effective flight crew performance this new edition adapts itself to fit the users the task and operational and regulatory environments all of which continually evolve Each contributor examines techniques and presents cases that best illustrate CRM concepts and training This book discusses the history and research foundation of CRM and also stresses the importance of making adaptive changes and advancements New chapters include CRM and Individual Resilience Flight and Cabin Crew Teamwork Improving Safety in Aviation CRM and Risk Management Safety Management Systems and MRM for Technical Operations This book provides a deep understanding of CRM what it is how it works and how to practically implement an effective program Addresses the expanded operating environment pilots flight attendants maintenance etc Assists developers and

practitioners in building effective programs Describes best practices and tools for supporting CRM training in individual organizations Highlights new advances and approaches to CRM Includes five completely new chapters

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