

David Ferbrache

A Pathology of Computer Viruses



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A Pathology Of Computer Viruses:

A Pathology of Computer Viruses David Ferbrache,2012-12-06 The 1980 s saw the advent of widespread and potentially damaging computer virus infection of both personal computer and mainframe systems The computer security field has been comparatively slow to react to this emerging situation It is only over the last two years that a significant body of knowledge on the operation likely evolution and prevention of computer viruses has developed A Pathology of Computer Viruses gives a detailed overview of the history of the computer virus and an in depth technical review of the principles of computer virus and worm operation under DOS Mac UNIX and DEC operating systems David Ferbrache considers the possible extension of the threat to the mainframe systems environment and suggests how the threat can be effectively combatted using an antiviral management plan The author addresses the latest developments in stealth virus operations specifically the trend for virus authors to adopt extensive camouflage and concealment techniques which allow viruses to evade both existing anti viral software and to avoid detection by direct observation of machine behaviour A Pathology of Computer Viruses addresses a distinct need that of the computer specialist and professional who needs a source reference work detailing all aspects of the computer virus threat [Guide to Computer Viruses](#)

Robert Slade,2012-12-06 For those who didn t buy the first edition welcome aboard For those who did buy the first edition welcome back and thanks for making the second edition possible For those who bought the first edition and are standing in the book store wondering whether to buy the second what s in it for you Well for one thing it s smaller No no Don t leave I tried to make the first edition a kind of master reference for antiviral protection That meant I included a lot of stuff that I thought might possibly be helpful even if I had some doubts about it This time I ve tried to be a little more selective I ve added a little more material to Chapter 4 Computer Operations and Viral Operations dealing with the question of computer viruses infecting data files and the new macro viruses I ve added two new sections to Chapter 7 The Virus and Society One looks at the increasing problem of false alarms while the other looks at the ethics of virus writing and exchange

The Art of Computer Virus Research and Defense Peter Szor,2005-02-03 Symantec s chief antivirus researcher has written the definitive guide to contemporary virus threats defense techniques and analysis tools Unlike most books on computer viruses The Art of Computer Virus Research and Defense is a reference written strictly for white hats IT and security professionals responsible for protecting their organizations against malware Peter Szor systematically covers everything you need to know including virus behavior and classification protection strategies antivirus and worm blocking techniques and much more Szor presents the state of the art in both malware and protection providing the full technical detail that professionals need to handle increasingly complex attacks Along the way he provides extensive information on code metamorphism and other emerging techniques so you can anticipate and prepare for future threats Szor also offers the most thorough and practical primer on virus analysis ever published addressing everything from creating your own personal laboratory to automating the analysis process This book s

coverage includes Discovering how malicious code attacks on a variety of platforms Classifying malware strategies for infection in memory operation self protection payload delivery exploitation and more Identifying and responding to code obfuscation threats encrypted polymorphic and metamorphic Mastering empirical methods for analyzing malicious code and what to do with what you learn Reverse engineering malicious code with disassemblers debuggers emulators and virtual machines Implementing technical defenses scanning code emulation disinfection inoculation integrity checking sandboxing honeypots behavior blocking and much more Using worm blocking host based intrusion prevention and network level defense strategies

Computer Viruses and Malware John Aycock, 2006-09-19 Our Internet connected society increasingly relies on computers As a result attacks on computers from malicious software have never been a bigger concern Computer Viruses and Malware draws together hundreds of sources to provide an unprecedented view of malicious software and its countermeasures This book discusses both the technical and human factors involved in computer viruses worms and anti virus software It also looks at the application of malicious software to computer crime and information warfare Computer Viruses and Malware is designed for a professional audience composed of researchers and practitioners in industry This book is also suitable as a secondary text for advanced level students in computer science

The Internet Encyclopedia Hossein Bidgoli, 2004 The Internet Encyclopedia in a 3 volume reference work on the internet as a business tool IT platform and communications and commerce medium

Computer Viruses and Anti-virus Warfare Jan Hruska, 1992 Including much new and valuable material this second revised edition presents a step by step method for effectively dealing with virus attacks The book analyzes virus structure by looking at infection paths and common carriers Covers stealth viruses in detail explores side effects and mutations and offers practical suggestions for preventing virus infection

Have You Locked the Castle Gate? Brian Shea, 2002 Most home computer users and small businesses fail to maintain effective security on their Internet exposed computers This book is a guide to the basics of information security the risks of performing certain tasks on the Internet the measures readers need to take for security as well as the places to go for expert information

Security and Software for Cybercafes Adomi, Esharenana E., 2008-04-30 Cybercafes which are places where Internet access is provided for free provide the opportunity for people without access to the Internet or who are traveling to access Web mail and instant messages read newspapers and explore other resources of the Internet Due to the important role Internet cafes play in facilitating access to information there is a need for their systems to have well installed software in order to ensure smooth service delivery Security and Software for Cybercafes provides relevant theoretical frameworks and current empirical research findings on the security measures and software necessary for cybercafes offering information technology professionals scholars researchers and educators detailed knowledge and understanding of this innovative and leading edge issue both in industrialized and developing countries

Digital Contagions Jussi Parikka, 2007 Digital Contagions is the first book to offer a comprehensive and critical analysis of the culture and history of the computer virus phenomenon The book

maps the anomalies of network culture from the angles of security concerns the biopolitics of digital systems and the aspirations for artificial life in software The genealogy of network culture is approached from the standpoint of accidents that are endemic to the digital media ecology Viruses worms and other software objects are not then seen merely from the perspective of anti virus research or practical security concerns but as cultural and historical expressions that traverse a non linear field from fiction to technical media from net art to politics of software Jussi Parikka mobilizes an extensive array of source materials and intertwines them with an inventive new materialist cultural analysis Digital Contagions draws from the cultural theories of Gilles Deleuze and Félix Guattari Friedrich Kittler and Paul Virilio among others and offers novel insights into historical media analysis

Information Security Management Handbook, Volume 6 Harold F. Tipton, Micki Krause Nozaki, 2016-04-19 Updated annually the Information Security Management Handbook Sixth Edition Volume 6 is the most comprehensive and up to date reference available on information security and assurance Bringing together the knowledge skills techniques and tools required of IT security professionals it facilitates the up to date understanding required to stay

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