

In memory of the founder of CTIF statistics



It is with great sadness that the Team of the Fire Statistics Center is pleased to announce that, February 1, 2024, the founder of the CTIF Statistics Center, Prof. Dr. **Nikolay Nikolayevich Brushlinsky**, passed away in Moscow. He initiated the Statistics Centre together with President Gunnar Haurum in the

early 1990ies. In the decades of his scientific life N.N. Brushlinsky has published more than 350 scientific papers (monographs, books, textbooks, manuals, articles), 70 of which are abroad (Australia, Great Britain, Germany, USA, Yugoslavia, etc.). After the publication of the announcement of Professor Brushlinsky's death, the Center for Fire Statistics of CTIF received a wave of international sympathy. The request was made to provide an overview of the most important publications. We will try to comply with this request. Below we have summarized the most important publications from our subjective point of view. In doing so, we have only concentrated on the book publications. In addition to the title of the book and the publisher, we have indicated the year of publication and the respective language. As far as is known, the respective ISBN number has been added. Please note that the individual publications may be no longer available in bookstores, as the circulation was usually not very high. We have only added a note for those books where there may still be leftovers.



Book title: Modeling of the operational activities of the fire service

Author(s): Brushlinsky N.N.

Publisher: Moscow, Edition Stroyizdat Publishing House

Publication date: 1981

Number of pages: 96

Language: Russian

ISBN: unknown

About: The results of a statistical analysis of the fire service activities in the cities are presented. Analytical models of these processes are presented and the fundamental limitations of their capabilities for practical use are shown.

Моделирование пожаров и взрывов

Под общ. ред.
Н.Н. Брушлинского
А.Я. Корольченко

Ассоциация «Пожнаука»

Book title: Simulation of fires and explosions

Author(s): Brushlinsky N.N., Korolchenko A.Y.

Publisher: Association PozNauka, Moscow

Publication date: 2000

Number of pages: 492

Language: Russian

ISBN: unknown

About: The book presents the main results of mathematical modeling of the development of fires and explosions, obtained by Russian scientists, mainly in the last third of the 20th century. The book consists of sixteen chapters devoted to various aspects of fire and explosion modeling, prepared by leading experts in the field. When compiling the book, two main criteria were taken into account: the compliance of the developed models with the current level of knowledge about the processes of combustion and heat and mass transfer in fires, as well as the possibility of their practical application. This book is intended for specialists in the field of fire safety, teachers and students of construction and fire-technical universities



Bruschlinsky / Nitzschke / Sokolov / Wagner

Feuerwehren in Millionenstädten

Kohlhammer

Book title: Fire Brigades in Cities with Millions: Organization, Problems and Solutions

Author(s): N. Brushlinsky, M. Nitzschke, S. Sokolov, P. Wagner.

Publisher: Stuttgart: Kohlhammer

Publication date: 1995

Number of pages: 308

Language: German

ISBN: 3-17-013704-2

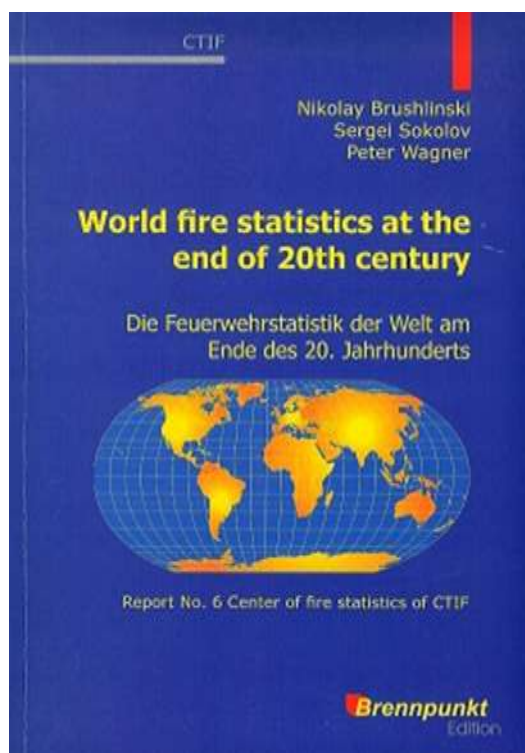
About: The book describes the history and current organizational structure of the fire brigades of the largest cities in the world. In addition to the equipment of the fire and rescue services, extraordinary missions and courageous reforms are discussed in detail.



Book title: Urban Safety: Simulation Modeling of Urban Processes and Systems
Author(s): Brushlinskii N. N., Sokolov S. V., Wagner P., et al.
Publisher: Moscow: Publisher PHASIS
Publication date: 2004
Number of pages: 172
Language: Russian
ISBN: 5-7036-0097-9

About: The book discusses the essence of modeling as a method of scientific cognition. The problems of ensuring the integrated safety of cities against the background of the intensively developing process of urbanization in the modern world are highlighted. The results of a statistical analysis of the functioning of various emergency rescue and emergency services of cities are presented (in total, about 1000 cities of the world on all continents of our planet were examined). Analytical models of these processes are presented and the fundamental limitations of their capabilities for practical use are shown. Much

attention in the book is devoted to the simulation modeling of the processes of occurrence of destructive events in cities and the prompt response to them of the relevant emergency rescue and emergency services, the interactive problem-oriented simulation system COSMAS, including the identification and verification of its simulation models, is considered in detail. The STRES system is also considered here, created to provide information support for the operation of the COSMAS system. Various issues of the practice of operation of these systems in various cities are highlighted.



Book title: World Fire Statistics at the end of XX century
Author(s): Brushlinsky N., Sokolov S., Wagner P
Publisher: FKF Media t.V., Berlin
Publication date: 2000
Number of pages: 221
Language(s): English, Russian, German
ISBN: 3-9806728-1-6

About: The book is an extended report of the CTIF Fire Statistics Center No. 6 for 2000 and was published on the occasion of the 100th anniversary of the establishment of CTIF. The book examines the world fire statistics in the last decade of the twentieth century: the situation with fires on the planet and its continents; the situation with fires in 54 countries of the world and the assessment of fire risks; the dynamics of fire brigade visits and fires in the CTIF member countries in 1993-1998 (40 countries); the dynamics of visits for technical and medical assistance in the KTIF member countries in 1993-1998; the dynamics of emergency response calls; the dynamics and structure of false firefighter calls Units; the problem of arson; dynamics of deaths in fires; dynamics of

firefighters' deaths; places of fire occurrence and means of extinguishing them; the situation with fires in the largest cities of the CTIF member countries in 1996-1998 (30 cities); economic and statistical assessment of the cost of fires.



Book title: Fires in Russia and in the World. Statistics, analysis, forecasts.

Author(s): Alekhin E.M., Bushlinsky N.N., Wagner P., Kolomiets Y.I., Lupanov S.A., Sokolov S.V.

Publisher: Moscow, GPS Academy Publisher

Publication date: 2002

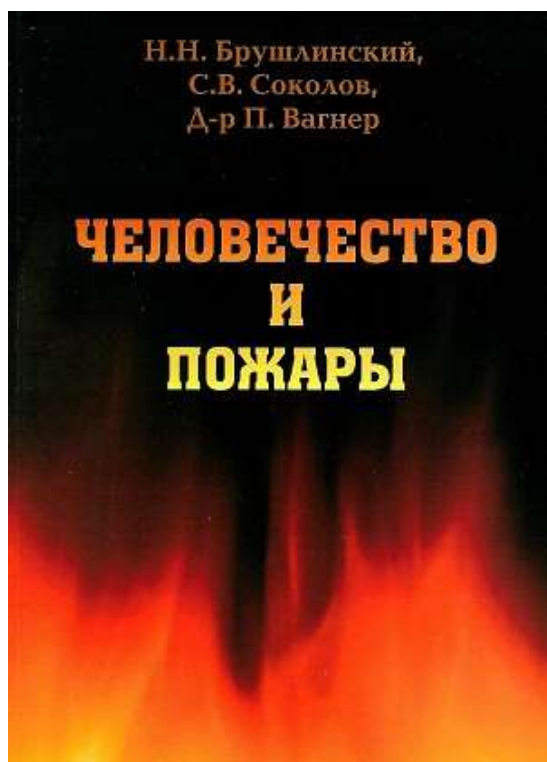
Number of pages: 158

Language: Russian

ISBN: 5-901520-10-6

About: Until recently, at the end of the 20th century, there were essentially no global fire statistics, as well as analytical generalizing studies on the situation with fires on our planet. Over the past two years, the authors of the book have prepared a number of official materials, which have been published in several scientific and practical journals both in our country and abroad (Great Britain, Germany, etc.). Since all these materials, which were kindly received by specialists, consistently supplemented and developed the topic of studying the problem of fires

on earth, it was decided to collect them all in the form of one book, correcting the previously made inaccuracies and adding the latest statistical data.



Book title: Mankind and Fires

Author(s): Brushlinskiy N.N., Sokolov S.V., Wagner

Publisher: Moscow: OOO IPC Maska

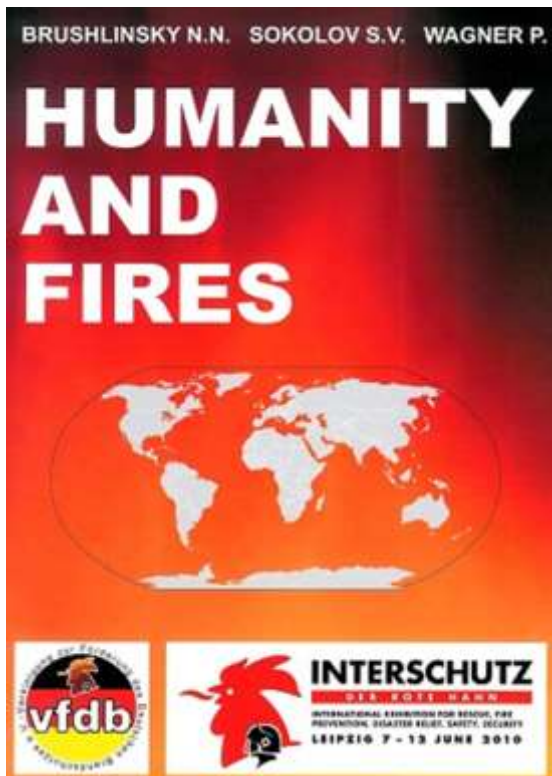
Publication date: 2007

Number of pages: 142

Language: Russian

ISBN: unknown

About: Until recently, there have been virtually no special comprehensive studies of the problem of fires in the world, although, in our opinion, it has long acquired historical, social, economic, environmental, philosophical and other aspects, some of which we have tried to consider in this work. In the English edition, the book is supplemented by an analysis of the situation with fires in 65 countries of the world.



Book title: Humanity and Fires

Author(s): Brushlinsky N., Sokolov S., Wagner P.

Publisher: EDURA (Poland),

Publication date: 2010

Number of pages: 500

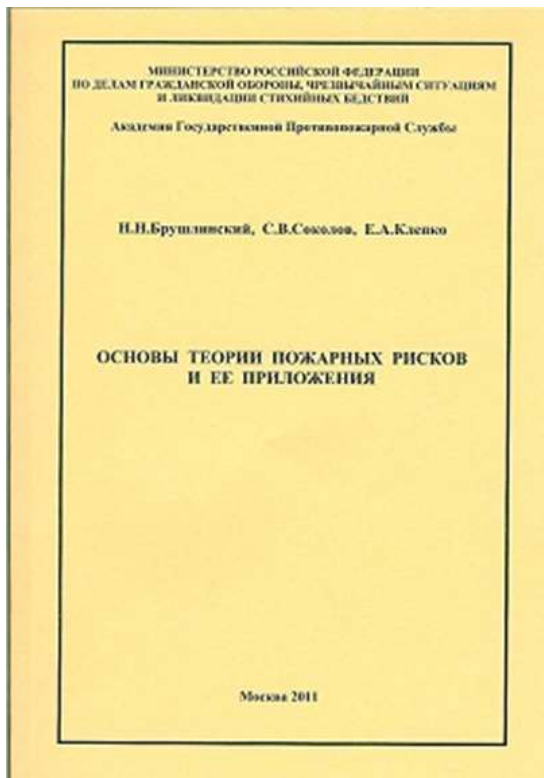
Language: English

ISBN: 978-83-88777-29-5

About: On the occasion of INTERSCHUTZ 2010 in Leipzig (Germany), the book presents a summary of the current fire protection problems in the world at the end of the 20th century. The fire risks are defined. Furthermore, a review of the development of fire risks in 70 countries of the world is given. In the final part of the book, the problems of urbanization, geophysical and other aspects of fire protection are discussed. The book concludes with the reconstruction of fire risks up to the year zero of our era and gives an outlook on the 24th century.

Note: some copies of that publication are available at the Center of Fire Statistics of CTIF. Please

contact: **Email:** drpeterwagner@freenet.de



Book title: Fundamentals of the theory of fire risks and its application

Author(s): Brushlinskiy N.N., Sokolov S.V., Klepko E.A..

Publisher: Moscow, Akademiya GPS EMERCOM Russia Publisher

Publication date: 2011

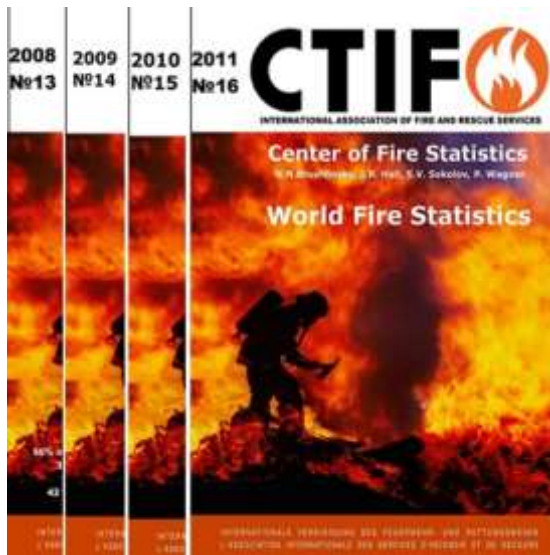
Number of pages: 82

Language: Russian

ISBN: unknown

About: This brochure outlines the basics of fire risk theory and some of its applications. The concept of integral and local fire risks has been clarified; urban and rural fire risks are considered in detail, the concept of a complex indicator of fire danger in rural areas, based on the correlation between the main fire risks in cities and rural areas, is introduced; The methodology for calculating individual fire risks for buildings, structures and structures (according to the Applications of the theory of fire risks are illustrated mainly by examples of reconstruction of the situation with fires in the Ancient World, in the Middle Ages,

modern and modern history, as well as making forecasts of the future situation with fires up to the 23th century.

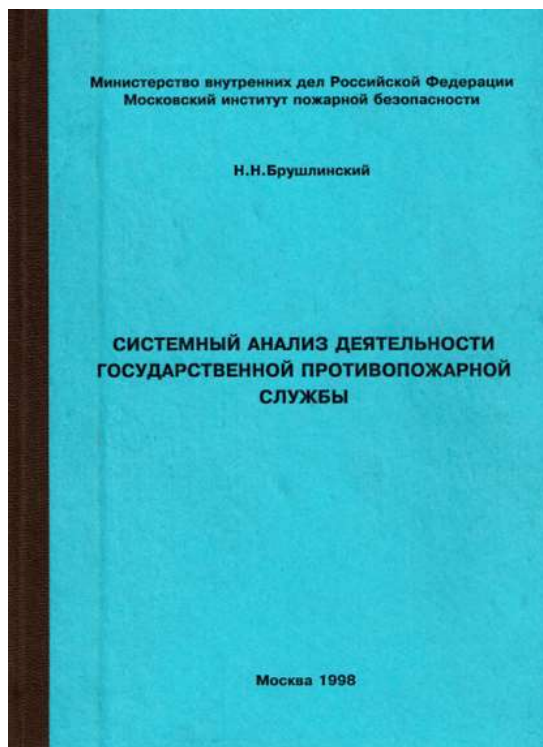


Book title: World Fire Statistics Center
Author(s): Brushlinsky, Sokolov, Wagner, and representatives of the NFPA, Ukraine, and other states in various editions
Publisher: Center of Fire Statistics of CTIF
Publication date: 1995-2023
Number of pages: Varies by edition
Language: English, Russian, German, and partly in other languages
ISBN: non

About: The CTIF World Fire Statistics Center gathers data from fires worldwide, and collects them in PDF format. In 2018, though a collaboration with Chile, issue no 23-2018 has been translated into Spanish. In 2019, a Hungarian edition for #23 was added, and a

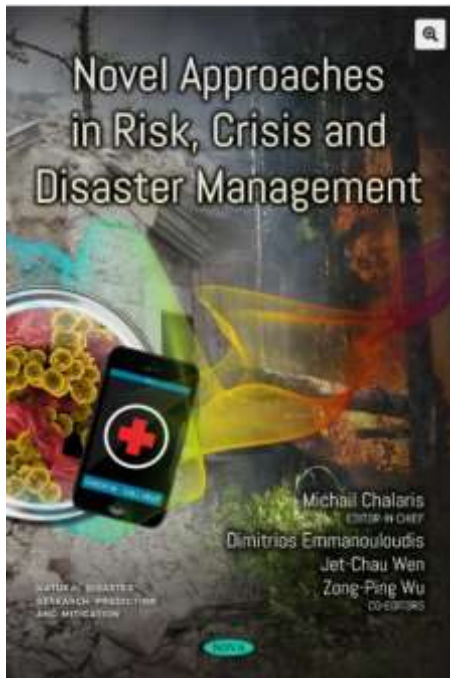
Persian version of issue no 24. The statistical data in these reports are based on official data from every country that provided data for each respective year. No attempt has been made to limit the calculations to countries that provided data for all or most years or to compensate statistically for changes in the participating countries (or cities). Therefore, readers should use caution in interpreting these results. An apparent trend up or down may be based more on the movement in and out of the database of a very large country or a shift in the fraction of included populations residing in high-rate versus low-rate countries rather than real change in fire experience or fire risk but rather Readers should also be aware that every country has its own methods of data collection and analysis of fires, fire deaths and fire injuries. These methods can change over time in individual countries, and this also can affect the results, as can changes in national boundaries.

Note: free download of reports at <https://www.ctif.org/world-fire-statistics>. Reports before 2005 are not available any more.



Book title: System Analysis of the Activities of the State Fire Service
Author: Brushlinskiy N.N.
Publisher: Moscow Institution of Fire Safety Ministry of Interiors
Publication date: 1998
Number of pages: 255
Language: Russian
ISBN: non

About: Introduction to the basic methods of system analysis, methods of processing statistical data, basics of probability theory, modelling of the operational situation of the functioning process of fire brigades, design of fire protection services in cities, and experience of foreign fire brigades.



Book title: Novel Approaches in Risk, Crisis and Disaster Management, Series: Natural Disaster Research, Prediction and Mitigation

Editors: D. Emmanouloudis, Jet-Chau Wen, M. Chalaris, Z-P. Wu

Author(s): N.N. Brushlinsky, S.V. Sokolov and P. Wagner

Publisher: Nova Science Publishers, New York, USA

Publication date: 2018

Number of pages: 440

Language: English

ISBN: 978-1-53613-239-7

About: Nowadays, governments are more often than not confronted with crises that are so unforeseen (i.e., the 9/11 attacks), so unexpected in nature or in extent (i.e., the SARS and H1N1 pandemic outbreaks, the Indian Ocean tsunami or Hurricane Katrina) and with such extensive social and economic effects that they may seem almost impossible to

deal with. Yet, the successful management of these forms of crisis is possible. As prior experience has demonstrated, success in limiting the effects of major hazards on people and property relies not only on the active involvement and effective coordination of a variety of actors at different levels of state governance, but also on the preparation and the ability to react rapidly, efficiently and effectively to unexpected events. Ensuring that national authorities have the right technical instruments (reformed risk, crisis and disaster management systems, and an adequate institutional framework) for managing disasters is of critical importance for the success of such a venture. However, as this book intends to show, human capital remains the most important factor in this equation.

In this book, the CTIF Centre of Fire Statistics has contributed the following chapters: Chapter 1. Problems of Fire Safety in the Modern World (pp. 1-66), Chapter 7. Modeling the Process of Fire and Rescue Services Activities (pp. 181-304).



Book title: Fire Risks - Basic Terms

Editor: Brushlinskiy N.N.

Publisher: National Academy of Fire Safety Science, Moscow, Federal State Institution Scientific Research Institute of Fire Safety

Publication date: 2004

Number of pages: 55

Language: Russian

ISBN: 5-9011140-24-9

About: Introduction to the basic terms of risk theory and safety, calculation of risks and relation between types of main fire risks. Introduction of tirade "danger – risk – safety". The content illustrated with data from 80 countries of the world.



Book title: Fire Risks – Dynamics of Fire Risks

Editor: Brushlinskiy N.N.

Publisher: National Academy of Fire Safety Science, Moscow, Federal State Institution Scientific Research Institute of Fire Safety

Publication date: 2005

Number of pages: 82

Language: Russian

ISBN: 5-9011140-45-1

About: The publication analyzes both the historical information on the study of fire risks in states, as well as the monitoring methods of fire risks. The dynamics of fire risks in 9 states and 4 major cities are analyzed. Particular attention is paid to the development of fire risks in Russia from the 19th to the 21st century. The number of fire victims from 22 countries in the last decades of the 20th century is analyzed.



Book title: Mathematical methods and models of management of the fire service

Author: Brushlinskiy N.N., Sokolov S.V.

Publisher: Moscow Academy of State Fire Service of Emercom of Russia

Publication date: 2020

Number of pages: 200

Language: Russian

ISBN: 978-5-9229-0046-1

About: Introduction to the basic mathematical methods and models of processing statistical data, basics of probability theory, modelling of the fire units' activities, design of fire protection services in cities, and experience of foreign fire brigades.