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Technical Co-operation for Progress International Atomic Energy Agency 1985

Irradiation As a Phytosanitary Treatment of Food and Agricultural Commodities 2004 Presents the results of a Coordinated Research Project (CRP). The results contain data on the effect of low doses of irradiation at different stages of development of almost 30 different species of insects and mite which represent major trade problems.

Sticky Cotton Eric F. Hequet 2006 "Study of stickiness on cotton fibers caused by sugar deposits produced by the plant itself or by honeydew from insects (usually aphids and whiteflies) feeding on cotton. Examines contamination impact on fiber processing, yarn quality, and textile production and discusses various technologies and methods for detection and measurement"--Provided by publisher.

Nuclear Science Abstracts 1975 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976, pre-dating the prestigious INIS database, which began in 1970. NSA existed as a printed product (Volumes 1-33) initially, created by DOE's predecessor, the U.S. Atomic Energy Commission (AEC). NSA includes citations to scientific and technical reports from the AEC, the U.S. Energy Research and Development Administration and its contractors, plus other agencies and international organizations, universities, and industrial and research organizations. References to books, conference proceedings, papers, patents, dissertations, engineering drawings, and journal articles from worldwide sources are also included. Abstracts and full text are provided if available.

Sterile Insect Technique V.A. Dyck 2006-02-23 The sterile insect technique (SIT) is an environment-friendly pest control method that fits into area-wide integrated pest management (AW-IPM) programmes. This book describes the principles and practice of SIT, frankly evaluating its strengths and weaknesses, successes and failures. SIT is useful against pests that have considerable impact on plant, animal and human health, and criteria are provided to guide in the selection of pests appropriate for SIT.

Fruit Flies and the Sterile Insect Technique Carrol O. Calkins 2019-07-23 This book is a continuation of the development of the Sterile Insect Technique (SIT) specifically designed for use against, and management of, fruit flies. Several

factors indicate an increased use of the SIT against fruit flies within the next decade.

Handbook of Pest Management John R. Ruberson 1999-07-09 "Provides a detailed summary of pest management principles and techniques, outlining a broad selection of critical issues regarding current practice and future technology in this area. Discusses the role of soils, weather, and surrounding habitats in regulating pest occurrence and severity."

Vector control and the elimination of gambiense human African trypanosomiasis (HAT) 2022-06-30

Protocols for Cytogenetic Mapping of Arthropod Genomes Igor V. Sharakhov 2014-10-28 Arthropods are important to worldwide agriculture, food safety, human health, and energy production. Besides their practical significance, various species represent excellent model systems for biological investigations of evolution, development, physiology, reproduction, and social interaction. For these reasons, arthropod genomics is receiving increasing attention from researchers around the globe. *Protocols for Cytogenetic Mapping of Arthropod Genomes* is a collection of up-to-date, detailed protocols for physical chromosome mapping and their applications for studying genome organization and evolution in insects and ticks. This book brings together the expertise of cytogeneticists working on diverse groups of arthropods. Each chapter demonstrates approaches to tissue dissection, chromosome preparation, fluorescence in situ hybridization, and imaging. The book is a timely and complementary effort to the i5K initiative, which will obtain whole-genome sequences for 5,000 insect and related arthropod species. This comprehensive resource provides cytogeneticists with the necessary background and protocols to understand and develop chromosome-based genome assemblies from such whole-genome sequence data.

Vector control and the elimination of gambiense human African trypanosomiasis (HAT) – Joint FAO/WHO Virtual Expert Meeting, 5–6 October 2021 Food and Agriculture Organization of the United Nations 2022-06-14 Human African trypanosomiasis (HAT) is a vector-borne parasitic disease transmitted by tsetse flies in sub-Saharan Africa. The gambiense form of the disease (gHAT) is endemic in western and central Africa and is responsible for more than 95 percent of the HAT cases reported annually. In the road map for neglected tropical diseases 2021–2030, WHO targeted gHAT for elimination of transmission by 2030. FAO supports this goal within the framework of the Programme against African Trypanosomiasis (PAAT). In the framework of the WHO network for HAT elimination, FAO and WHO convened a virtual expert meeting to review vector control in the context of gHAT elimination. The experts included health officials from endemic countries and representatives from research and academic institutions, international organizations and the private sector. Seven endemic countries provided reports on recent and ongoing vector control interventions against gHAT at national level (i.e. Angola, Cameroon, Côte d'Ivoire, Chad, Democratic Republic of the Congo, Guinea and Uganda). The country reports were followed by thematic sessions on various aspects of vector control: tools, costs, community-based approaches, monitoring and reporting. Tsetse control was also discussed in the broader framework of One Health, and in particular in relation to the control of animal trypanosomiasis. This report presents a summary of the findings and lessons learned.

21st Century Homestead: Biological Pest Control Zane Polosky 2015-02-21 21st

Century Homestead: Biological Pest Control contains everything you need to stay up to date on biological pest control

Rearing Codling Moth for the Sterile Insect Technique Victor Arnold Dyck 2010

Area-Wide Management of Fruit Fly Pests Diana Perez-Staples 2019-11-22 Fruit fly (Diptera: Tephritidae) pests have a profound impact on horticultural production and economy of many countries. It is fundamental to understand their biology and evaluate methods for their suppression, containment, or eradication. *Area-Wide Management of Fruit Fly Pests* comprises contributions from scientists from around the world on several species of tephritids working on diverse subjects with a focus on area-wide management of these pests. The first three sections of the book explore aspects of the biology, ecology, physiology, behavior, taxonomy, and morphology of fruit flies. The next two sections provide evidence on the efficacy of attractants, risk assessment, quarantine, and post-harvest control methods. The fifth and sixth sections examine biological control methods such as the Sterile Insect Technique and the use of natural enemies of fruit flies. The seventh section focuses on area-wide integrated pest management and action programs. Finally, the eighth section examines social, economic, and policy issues of action programs aimed at involving the wider community in the control of these pests and facilitate the development of control programs. Features: Presents information on the biology of tephritid flies. Provides knowledge on the use of natural enemies of fruit flies for their biological control. Includes research results on models and diets used for the Sterile Insect Technique. Reports developments on the chemical ecology of fruit flies that contribute to make control methods more specific and efficient. Reviews subjects such as Holistic Pest Management and Area-Wide Management Programs including social, economic, and policy issues in various countries. The Open Access version of this book, available at <https://www.taylorfrancis.com/books/9780429355738>, has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license.

Guide for Establishing and Maintaining Pest Free Areas Food and Agriculture Organization of the United Nations 2019-10-15 The purpose of the Guide is to support national plant protection organizations (NPPOs) who wish to establish and maintain pest free areas (PFA) including places and/or production sites (PFPP and PFPS) as well as areas of low pest prevalence (ALPP). To facilitate an understanding of the processes to establish and maintain PFAs and ALPPs, a diagram in the form of a decision tree was constructed that identifies and outlines five general phases of programme development as follows: initiation, feasibility, establishment, maintenance, and market access phases. The guide is then divided into corresponding sections that describe what the key elements of each phase are, why these elements are important, what some of the common challenges and pitfalls are, and factors that may influence the success of the different phases such as budget stability, public outreach, availability of good survey and control tools, and open engagement with stakeholders and trading partners. By providing a deeper understanding of the factors that should be considered when establishing a PFA, PFPP, PFPS or ALPP the guide aims to overcome the challenges and maximize the impact of these efforts to the benefit of all parties. The guide concludes by providing a number of case studies from around the world that highlight successful PFA and ALPP programmes and how they deal with particular key issues. This guide contains current experience and the most advanced phytosanitary procedures in the implementation of PFA and ALPP, however, it is subjected to revision and updates as new developments are made available.

Handbook of Major Palm Pests Victoria Soroker 2017-01-11 *Handbook of Major Palm Pests: Biology and Management* contains the most comprehensive and up-to-date information on the red palm weevil and the palm borer moth, two newly emergent invasive palm pests which are adversely affecting palm trees around the world. It provides state-of-the-art scientific information on the ecology, biology, and management of palm pests from a global group of experts in the field. An essential compendium for anyone working with or studying palms, it is dedicated to the detection, eradication, and containment of these invasive species, which threaten the health and very existence of global palm crops.

Area-Wide Control of Insect Pests M.J.B. Vreysen 2007-10-30 Insect pests are becoming a problem of ever-more biblical proportions. This new textbook collates a series of selected papers that attempt to address various fundamental components of area-wide insect pest control. Of special interest are the numerous papers on pilot and operational programs that pay special attention to practical problems encountered during program implementation. It's a compilation of more than 60 papers authored by experts from more than 30 countries.

Safe Management of Wastes from Health-care Activities A. Prüss 1999

Tsetse and Trypanosomosis Information Food and Agriculture Organization of the United Nations 2018-08-31 TTI disseminates current information on all aspects of tsetse and trypanosomosis research and control to institutions and individuals involved in the problems of African trypanosomosis. This service forms an integral part of the Programme Against African trypanosomosis (PAAT).

Management of Insect Pests 1993 O manejo de insetos usando a engenharia genetica e biologia molecular.

Genetically Modified and Other Innovative Vector Control Technologies Brij Kishore Tyagi 2021 This book comprehensively covers the latest development in developing and deploying the genetically modified vectors, particularly Anopheles and Aedes mosquitoes responsible for transmitting malaria parasites and dengue viruses, the most deadly and/or debilitating among all the vector-borne diseases. It is considered timely and commensurate to bring about a book dealing with the various ecological, biological and social as well as regulatory aspects for the deployment of genetically modified vectors in special context with the biosafety of humans, his associates, and the environment. Written by an array of specialists and experts in various subjects of genetically modified organisms, this book centrally addresses the (i) basic principles of the genetic manipulation of vectors and they are potential impact on human and the environment, (ii) ecological, biological, ethical, legal and social implications of the use of genetically modified vectors, (iii) identification of potential hazards; assessment and management of risks for human and environment; risk/benefit analysis, (iv) principles and practices for the assessment and management of biosecurity and biosafety in laboratories (and in the field), (v) guiding principles for creation and management of institutional or national biosafety review boards and ethics review committees, and (vi) development and application of a biosafety regulatory framework and its related legal principles at national levels for securing the development and use of vector control methods based on genetic modification strategies. This publication will be useful to researchers, scientists, and professionals engaged in academic and research institutions, government or non-government, as well as students in universities and medical colleges.

Fruit Fly Pests Bruce A. McPherson 2020-03-10 A book of national and international importance, *Fruit Fly Pests* is an exhaustive compendium of information (with data provided by more than 100 contributors) that will appeal to a wide variety of readers. With huge losses experienced annually from fruit fly devastation, information on these high-profile insects is important to commercial fruit and vegetable growers, marketing exporters, government regulatory agencies, and the scientific community. Fruit flies impose a considerable resource tax, and the ones who suffer range from shippers to end users. The demand for world-wide plant protection requires up-to-date research information. This book meets that need. This book contains the proceedings from the most recent International Symposium on Fruit Flies of Economic Importance. Here you will find the major presentations given at the symposium, with an added feature - overviews from experts on topics not covered directly by participants in the symposium, filling in gaps in the current literature. The resulting publication is the most up-to-date and readable text to be found anywhere on the subject of tephritids.

Fruit Flies and the Sterile Insect Technique Carrol O. Calkins 2019-07-23 This book is a continuation of the development of the Sterile Insect Technique (SIT) specifically designed for use against, and management of, fruit flies. Several factors indicate an increased use of the SIT against fruit flies within the next decade.

Sterile Insect Technique Victor A. Dyck 2021-01-05 The sterile insect technique (SIT) is an environment-friendly method of pest control that integrates well into area-wide integrated pest management (AW-IPM) programmes. This book takes a generic, thematic, comprehensive, and global approach in describing the principles and practice of the SIT. The strengths and weaknesses, and successes and failures, of the SIT are evaluated openly and fairly from a scientific perspective. The SIT is applicable to some major pests of plant-, animal-, and human-health importance, and criteria are provided to guide in the selection of pests appropriate for the SIT. In the second edition, all aspects of the SIT have been updated and the content considerably expanded. A great variety of subjects is covered, from the history of the SIT to improved prospects for its future application. The major chapters discuss the principles and technical components of applying sterile insects. The four main strategic options in using the SIT - suppression, containment, prevention, and eradication - with examples of each option are described in detail. Other chapters deal with supportive technologies, economic, environmental, and management considerations, and the socio-economic impact of AW-IPM programmes that integrate the SIT. In addition, this second edition includes six new chapters covering the latest developments in the technology: managing pathogens in insect mass-rearing, using symbionts and modern molecular technologies in support of the SIT, applying post-factory nutritional, hormonal, and semiochemical treatments, applying the SIT to eradicate outbreaks of invasive pests, and using the SIT against mosquito vectors of disease. This book will be useful reading for students in animal-, human-, and plant-health courses. The in-depth reviews of all aspects of the SIT and its integration into AW-IPM programmes, complete with extensive lists of scientific references, will be of great value to researchers, teachers, animal-, human-, and plant-health practitioners, and policy makers.

Advances in DNA Research and Application: 2012 Edition 2012-12-26 *Advances in DNA Research and Application / 2012 Edition* is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about DNA. The

editors have built *Advances in DNA Research and Application / 2012 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about DNA in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Advances in DNA Research and Application / 2012 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Sterile Insect Technique Victor A. Dyck 2021-01-06 The sterile insect technique (SIT) is an environment-friendly method of pest control that integrates well into area-wide integrated pest management (AW-IPM) programmes. This book takes a generic, thematic, comprehensive, and global approach in describing the principles and practice of the SIT. The strengths and weaknesses, and successes and failures, of the SIT are evaluated openly and fairly from a scientific perspective. The SIT is applicable to some major pests of plant-, animal-, and human-health importance, and criteria are provided to guide in the selection of pests appropriate for the SIT. In the second edition, all aspects of the SIT have been updated and the content considerably expanded. A great variety of subjects is covered, from the history of the SIT to improved prospects for its future application. The major chapters discuss the principles and technical components of applying sterile insects. The four main strategic options in using the SIT – suppression, containment, prevention, and eradication – with examples of each option are described in detail. Other chapters deal with supportive technologies, economic, environmental, and management considerations, and the socio-economic impact of AW-IPM programmes that integrate the SIT. In addition, this second edition includes six new chapters covering the latest developments in the technology: managing pathogens in insect mass-rearing, using symbionts and modern molecular technologies in support of the SIT, applying post-factory nutritional, hormonal, and semiochemical treatments, applying the SIT to eradicate outbreaks of invasive pests, and using the SIT against mosquito vectors of disease. This book will be useful reading for students in animal-, human-, and plant-health courses. The in-depth reviews of all aspects of the SIT and its integration into AW-IPM programmes, complete with extensive lists of scientific references, will be of great value to researchers, teachers, animal-, human-, and plant-health practitioners, and policy makers.

Area-wide Integrated Pest Management Jorge Hendrichs 2021-02-01 Over 98% of sprayed insecticides and 95% of herbicides reach a destination other than their target species, including non-target species, air, water and soil. The extensive reliance on insecticide use reduces biodiversity, contributes to pollinator decline, destroys habitat, and threatens endangered species. This book offers a more effective application of the Integrated Pest Management (IPM) approach, on an area-wide (AW) or population-wide (AW-IPM) basis, which aims at the management of the total population of a pest, involving a coordinated effort over often larger areas. For major livestock pests, vectors of human diseases and pests of high-value crops with low pest tolerance, there are compelling economic reasons for participating in AW-IPM. This new textbook attempts to address various fundamental components of AW-IPM, e.g. the importance of relevant problem-solving research, the need for planning and essential baseline data collection, the significance of integrating adequate

tools for appropriate control strategies, and the value of pilot trials, etc. With chapters authored by 184 experts from more than 31 countries, the book includes many technical advances in the areas of genetics, molecular biology, microbiology, resistance management, and social sciences that facilitate the planning and implementing of area-wide strategies. The book is essential reading for the academic and applied research community as well as national and regional government plant and human/animal health authorities with responsibility for protecting plant and human/animal health.

Juvenile Hormones: Advances in Research and Application: 2011 Edition

2012-01-09 Juvenile Hormones: Advances in Research and Application: 2011 Edition is a ScholarlyPaper™ that delivers timely, authoritative, and intensively focused information about Juvenile Hormones in a compact format. The editors have built Juvenile Hormones: Advances in Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Juvenile Hormones in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Juvenile Hormones: Advances in Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Area-Wide Control of Insect Pests M.J.B. Vreysen 2010-10-19 Insect pests are becoming a problem of ever-more biblical proportions. This new textbook collates a series of selected papers that attempt to address various fundamental components of area-wide insect pest control. Of special interest are the numerous papers on pilot and operational programs that pay special attention to practical problems encountered during program implementation. It's a compilation of more than 60 papers authored by experts from more than 30 countries.

Sustainable Insect Pest Management S. Ignacimuthu 2005 Overexploitation of natural resources and excessive chemicalization of agriculture have led to poor sustainability of farm production. Indiscriminate use of agricultural chemicals has resulted in problems of pest resurgence and development of resistance on the one hand and has posed serious problems of environmental contamination through residues in food chain on the other hand. The importance of achieving food production through the use of ecofriendly sustainable pest management techniques is being realized more and more in the recent past. Eminent scientists from different research institutions have looked into this aspect seriously and have come up with many enlightening suggestions compiled together in this book.

Pink Bollworm Eradication United States. Congress. House. Committee on Agriculture 1927

International Atomic Energy Agency Bulletin International Atomic Energy Agency 1977

Issues in Medical Anthropology and Forensics: 2013 Edition 2013-05-01 Issues in Medical Anthropology and Forensics: 2013 Edition is a ScholarlyBrief™ that

delivers timely, authoritative, comprehensive, and specialized information about Additional Research in a concise format. The editors have built Issues in Medical Anthropology and Forensics: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Additional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Medical Anthropology and Forensics: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Atomic Energy in Agriculture William Ernest Dick 1957 Remaking crop plants with radiation; Photosynthesis: tracing the path of carbon with radio-isotopes; The path of the other elements; Radioactive materials in the fight against pests; Radioactive tracers and forestry; Atomic radiation and food preservation.

Gallium-68 Cyclotron Production International Atomic Energy Agency 2019-03-31 This publication provides a comprehensive overview of the technologies involved in the direct production of gallium-68. It serves as a specific guide for the production and quality control of metal radioisotope gallium-68 in chloride form for radiopharmaceutical production. Emphasis is given on the advances developed over the last few years. The publication, which also describes the legal matters related to the use of the targetry methods, will appeal to scientists and technologists intending to put cyclotron based radioisotope production into practice, as well as post graduate students in the field.

Nuclear Energy Raymond Murray 2014-01-28 Nuclear Energy is one of the most popular texts ever published on basic nuclear physics, systems, and applications of nuclear energy. This newest edition continues the tradition of offering a holistic treatment of everything the undergraduate engineering student needs to know in a clear and accessible way. The book presents a comprehensive overview of radioactivity, radiation protection, nuclear reactors, waste disposal, and nuclear medicine. The seventh edition is restructured into three parts: Basic Concepts, Nuclear Power (including new chapters on nuclear power plants and introduction to reactor theory), and Radiation and Its Uses. Part Two in particular has been updated with current developments, including a new section on Reactor Safety and Security (with a discussion of the Fukushima Daiichi accident); updated information on naval and space propulsion; and revised and updated information on radioactive waste storage, transportation, and disposal. Part Three features new content on biological effects of radiation, radiation standards, and radiation detection. Coverage of energy economics integrated into appropriate chapters More worked examples and end of chapter exercises Updated final chapter on nuclear explosions for current geopolitical developments

Energy Research Abstracts 1993

Guidance framework for testing the sterile insect technique (SIT) as a vector control tool against Aedes-borne diseases 2020-03-30

Sterile Insect Technique and Radiation in Insect Control 1982 Werkdocumenten gepresenteerd op een congres over genetische bestrijding (met hulp van

bestraling van insecten). Voordrachten over alle projecten onder auspiciën van de I.A.E.A. (International Atomic Energy Agency). Onderwerpen: sterilisatie-techniek bij *Aedes* spp., *Glossina* spp., *Ceratitis* spp., kweektechnieken bij *Glossina* spp. (Tsetse vlieg), computersimulaties en de introductie van semi-steriliteit door translocaties (met name bij de uienvlieg, *Hylemya antiqua*)

Facilities for Insect Research and Production N. C. Leppla 1978

Manual for Mosquito Rearing and Experimental Techniques Eugene Jordan Gerberg 1970