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Nota di contenuto	1. Harnessing the Hidden Treasures in African Yam Bean (Sphenostylis stenocarpa), An Underutilized Grain Legume with Food Security Potentials -- 2. The Role of Indigenous Food Species in Achieving Food Security in South-Eastern Nigeria -- 3. The potentials of African neglected and orphan crops in augmentation of African food security -- 4. Optimization of Soaking Condition and Drying Temperature for The Production of African Yam Beans (Sphenostylis sternocarpa) Flour -- 5. Harnessing the Potential of Underutilized Aquatic Bioresource For Food and Nutritional Security in Kenya -- 6. Exploring Some Neglected and Underutilized Root and Tuber Crops for Food Security in Nigeria -- 7. Finger Millet: A Crop with Food Security Potentials for Africans -- 8. An Exploratory Study of The Association Among Household Food Securing Activities, Gender and Health in South Africa -- 9. Exploring the Industrial Potential of The Nigerian Pumpkins (Cucurbita pepo L.) -- 10. Functional Meat andMeat Products for Sustainable African Nutrition Security -- 11. Agricultural Productivity: A Key Component of Inclusive

Growth Towards Food Security -- 12. Optimal Formulation of a Composite Flour from Biofortified Cassava, Pigeonpea, and Soybean for Complementary Feeding -- 13. Gauging Food Insecurity Resilience Among Pastoral Communities: A Case Study of Kenya -- 14. Optimisation and Multiplication of Large Fulani Eco-Type Chicken for Sustainable Production and Genetic Security in Nigeria -- 15. Soil Quality Indicators; Their correlation and Role in Enhancing Agricultural Productivity -- 16. Soil Quality and Horticulture: Implication for Food Security and Safety in Nigeria -- 17. Beneficiation of castor and thorn trees as management strategy to food security -- 18. Soil Information as A Factor to Consider in Sustainable Tree Crop Production for Nutritional Security, Poverty Alleviation and Biodiversity Management in Africa -- 19. African Walnuts: A Natural Depository of Nutritional and Bioactive Compounds Essential for Food and Nutritional Security in Africa -- 20. Implications of Production, Post-harvest and Consumption of Fish on Food and Nutrition Security: Nigeria as a Focal Country -- 21. Improving Crop Physio-Biochemical Efficiency and Abiotic Resilient Crops for Alleviating Food Insecurity in Africa -- 22. Analysis of Cassava Farmers' Response to Climate Change Adaptation: Implication for Sustainable Food Production in Nigeria -- 23. Sustainable Agriculture: A Way Out to Combat Food Insecurity and Unsafety in The Context of Climate Change in West Africa -- 24. Smart Crops for Climate Change and Food Security in Africa -- 25. Impact of Climate Change and Climate Variability on Food Safety and Occurrence of Foodborne Diseases -- 26. Management of Soil-Microorganism: Interphase for Sustainable Soil Fertility Management and Enhanced Food Security -- 27. The Relevance of Plant Breeding to Food Security in Africa -- 28. Extent, Impact and Prospects of Genetically Engineered Cropsin Africa -- 29. Soil Microbes and Food Security Nexus: Imperativeness of Microbial Biotechnology -- 30. Production of Edible Oil from Microorganisms -- 31. Food Sustainability Enhancement: Plant Growth-Promoting Bacteria as Key Players in The Alleviation of Drought Stress in Plants -- 32. Molecular Markers: Potential Facilitators in Plant Breeding and Germplasm Conservation -- 33. Biofertilizer: An Eco-Friendly Approach for Sustainable Crop Production -- 34. Design and Development of a Hybrid Bio-Solar Energy Fruit Dryer -- 35. Advances in Extrusion Technology and Its Applicability to Food Processing in Developing Nations -- 36. Nanotechnology as Vehicle for Biocontrol of Plant Diseases in Crop Production -- 37. Fusarium Species and Their Associated Mycotoxins in Foods and Their Products In Africa -- 38. Application of Nanobiotechnology In Agri-Food Sector; A Promising Technique in Food Safety -- 39. Salmonella enterica Subspecies Enterica Serotypes Associated with Meat and Meat Products in African Countries: A Review -- 40. Heavy Metals Contamination of Arable Lands: A Threat to Food Security and Safety -- 41. A Step Forward Towards Food Safety from Parasite Infective Agents -- 42. African Fermented Food as Antimicrobial Agents -- 43. Risk Assessment of Human Carcinogenicity of Acrylamide in Food: Way to Reduce the Predicted Mitogenic Side Effects Through Mitigation Strategy -- 44. Safety Hazards Along Animal Food Supply Chain in Nigeria.

Sommario/riassunto

This book focuses on food security and safety issues in Africa; a continent presently challenged with malnutrition and food insecurity. The continuous increase in the human population of Africa will lead to higher food demands, and climate change has already affected food production in most parts of Africa, resulting in drought, reduced crop yields, and loss of livestock and income. For Africa to be food-secure, safe and nutritious food has to be available, well-distributed, and sufficient to meet people's food requirements. Contributors to Food

	Security and Safety: African Perspectives offer solutions to the lack of adequate safe and nutritious food in sub-Saharan Africa, as well as highlight the positive efforts being made to address this lack through a holistic approach. The book discusses the various methods used to enhance food security, such as food fortification, fermentation, genetic modification, and plant breeding for improved yield and resistance to diseases. Theauthors emphasize the importance of hygiene and food safety in food preparation and preservation, and address how the constraints of climate change could be overcome using smart crops. As a comprehensive reference text, Food Security and Safety: African Perspectives seeks to address challenges specific to the African continent while enhancing the global knowledge base around food security, food safety, and food production in an era of rapid climate change. Professor Olubukola Oluranti Babalola (Pr.Sci.Nat, MASSAF) is the Vice President of the Organization for Women in Science for the Developing World, and a National Research Foundation rated established, scientist. She is the Research Director of Food Security and Safety at North-West University, Mmabatho, South Africa.

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Sommario/riassunto

This textbook provides an accessible yet comprehensive introduction to detectors in particle physics. It emphasises the core physics principles, enabling a deeper understanding of the subject for further and more advanced studies. In addition to the discussion of the underlying detector physics, another aspiration of this book is to introduce the reader to practically important aspects of particle detectors, like electronics, alignment, calibration and simulation of particle detectors. Case studies of the various applications of detectors in particle physics are provided. The primary audience is graduate students in particle or nuclear physics, in addition to advanced undergraduate students in physics. Key Features: Provides an accessible yet thorough discussion of the basic physics principles needed to understand how particle detectors work. Presents applications of the basic physics concepts to examples of modern detectors. Discusses practically important aspects like electronics, alignment, calibration and simulation of particle detectors. Contains exercises for each chapter to further understanding. For more information and errata please see the authors companion webpage https://ppdetectors.web.ox.ac.uk/ This webpage also allows instructors to request a copy of the solutions manual. This eBook was published Open Access with funding support from the Sponsoring Consortium for Open Access Publishing in Particle Physics (SCOAP3).