

<<植物保护专业英语导读>>

图书基本信息

书名：<<植物保护专业英语导读>>

13位ISBN编号：9787802336254

10位ISBN编号：7802336252

出版时间：2008-7

出版单位：北京科文图书业信息技术有限公司

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页数：246

字数：400000

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## <<植物保护专业英语导读>>

### 内容概要

进入21世纪以来,生命科学迅速发展,生物技术的发展更是突飞猛进,植物保护学科也出现前所未有的新局面,出现了许多惊人的新成果,引起了学术界的极大关注,同时在数字化的信息时代,由于英语作为一门国际性交流语言和工具,使得许多科技成果都要借助英语进行表述和交流,掌握和了解这些最新成果和应用前景,非常必要和重要。

到目前为止,查新未见有正式的植物保护专业英语导读出版,为此我们编选了这本《植物保护专业英语导读》,以飨读者。

本书精选了植物保护学科植物病理学、昆虫学和植物化学保护三个方面不同深度专业论著或论文,深入浅出地阐述该技术领域基础知识和科研成果,有助于读者提高专业英语理解、阅读及写作水平,起到向导的作用。

为了更好地学习科学知识和科技英语,全书分为PART A、PART B和PART C三大部分,每一单元我们精选15篇左右材料,每篇附有详细的单词、短语注释和参考译文。

本书适合研究生、本科学子作为专业英语教材使用,也是科技人员的重要参考资料。

本书是集体劳动的结晶,在编写本书时,我们采用专业教师和英语教师结合。

专业教师负责文献取材,并与英语教师共同负责校对编排,文献翻译由专业教师和英语教师共同负责。

既注重语言文字的流畅,又注重内容术语的准确,书中难免存在不足和疏漏,再版时纠正。

除了编委人员外,还有许多朋友为此书的编写提供了帮助,在此表示感谢。

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## 章节摘录

**Biology of Soilborne Pathogens Survival** . A soilborne pathogen's ability to survive in soil depends in part on the biological group to which it belongs . Few bacterial pathogens are true 10ng-term soil inhabitants ; most sur-

vive for limited periods as saprobes on plant debris or roots , or directly in the soil . These species's bacterial cells do not produce resilient endospores and the vegetative cells are not particularly resilient in adverse environments . Some species survive by secreting slimy material that dries to form protective layers around the cells , enabling them to withstand unfavorable conditions . Fungal pathogens survive in soil as saprobes on host plant debris or on other types of organic matter present in soil , or as free living organisms living directly in the soil . Many of these fungi produce resilient survival structures on organic materials ; the structures are released into the soil by tillage operations and through decomposition of the infected material . Survival structures can withstand low or high temperature extremes , dry conditions , and periods when no suitable host is present . Environmental factors , however , may affect how long the survival structures remain via-

ble . The sclerotia of some root infecting pathogens can be sensitive to desiccation . Low soil temperatures can be detrimental to pathogens that are adapted to warmer conditions . Such conditions can limit the development of pathogens such as *Macrophomina phaseolina* on beans and *Sclerotium rolfsii* on various crops . Distribution of pathogens in soil . The horizontal and vertical distribution of soil borne pathogens depends on production practices , cropping history , and a variety of other factors . Along a vertical axis , the inoculum of most root pathogens lies within the top 10 inches of the soil profile , the layers where host roots and tissues and other organic substrates are found . On the horizontal plane , distribution of inoculum in a field is usually aggregated in areas where a susceptible crop has been grown : survival structures produced in diseased tissues are likely to remain in the area where the affected hosts have grown . Because tillage operations involve fragmenting , moving , and burying plant residues , tillage can result in the vertical and horizontal redistribution of pathogens . Pathogen propagules can be moved both deeper and shallower in the soil profile . Deeper-placed propagules can have adverse effects on the survival of these structures . On the other hand,

exposure to heat , cold , and drying may kill pathogens that have been brought to the soil surface . On a horizontal scale , tillage redistributes inoculum that was at first present in just a few infested areas and spreads it throughout the field . Eventually , the inoculum produced after each susceptible crop could be spread to previously uninfested areas , contributing to increased disease on succeeding crops .

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