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Nota di contenuto	The Science of Forensic Entomology; Copyright; Contents; About the companion website; Preface; Chapter 1 Role of forensic science in criminal investigations; Overview; The big picture; 1.1 What is forensic science?; 1.2 Application of science to criminal investigations; 1.2.1 Physical evidence; 1.2.2 Collection of evidence; 1.2.3 The scientific method is the key to forensic analyses; 1.2.4 Analysis of physical evidence; 1.3 Recognized specialty disciplines in forensic science; 1.3.1 Forensic pathology; 1.3.2 Forensic anthropology; 1.3.3 Forensic dentistry (odontology) 1.3.4 Forensic psychology and psychiatry 1.3.5 Forensic toxicology; 1.3.6 Computer forensic science/computer forensics; 1.3.7 Forensic botany; Chapter review; What is forensic science?; Application of science to criminal investigations; Recognized specialty disciplines in forensic science; Test your understanding; Notes; References cited; Supplemental reading; Additional resources; Chapter 2 History of forensic entomology; Overview; The big picture; 2.1 Historical records of early human civilizations suggest understanding of insect biology

and ecology

2.2 Early influences leading to forensic entomology 2.2.1 Thirteenth-century China; 2.2.2 Seventeenth-century Europe; 2.2.3 Eighteenth-century Europe; 2.3 Foundation for discipline is laid through casework, research, war, and public policy; 2.3.1 Casework in Europe; 2.3.2 Influences from the United States; 2.4 Turn of the twentieth century brings advances in understanding of necrophagous insects; 2.5 Forensic entomology during the "great" wars; 2.6 Growth of the discipline due to the pioneering efforts of modern forensic entomologists leads to acceptance by judicial systems and public

Chapter review Historical records of early human civilizations suggest understanding of insect biology and ecology; Early influences leading to forensic entomology; Foundation for discipline is laid through casework, research, war, and public policy; Turn of the twentieth century brings advances in understanding of necrophagous insects; Forensic entomology during the "great" wars; Growth of the discipline due to the pioneering efforts of modern forensic entomologists leads to acceptance by judicial systems and public; Test your understanding;

Level 1: knowledge/comprehension

Level 2: application/analysis Notes; References cited; Supplemental reading; Additional resources; Chapter 3 Role of insects and other arthropods in urban and stored product entomology; Overview; The big picture; 3.1 Insects and other arthropods are used in civil, criminal, and administrative matters pertinent to the judicial system; 3.2 Civil cases involve disputes over private issues; 3.3 Criminal law involves more serious matters involving safety and welfare of people; 3.4 Administrative law is concerned with rulemaking, adjudication, or enforcement of specific regulatory agendas

3.5 Stored product entomology addresses issues of both a civil and criminal nature

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### Sommario/riassunto

The Science of Forensic Entomology is designed to meet the growing needs of colleges, universities, and forensic investigative agencies in training undergraduates, graduate students, and criminal investigators the principles, concepts and methodologies necessary to use insects and other arthropods in legal matters. The book offers an advanced introduction to the field but also provides in depth discussion of biological concepts associated with insect biology, ecology, physiology and chemical communication.

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