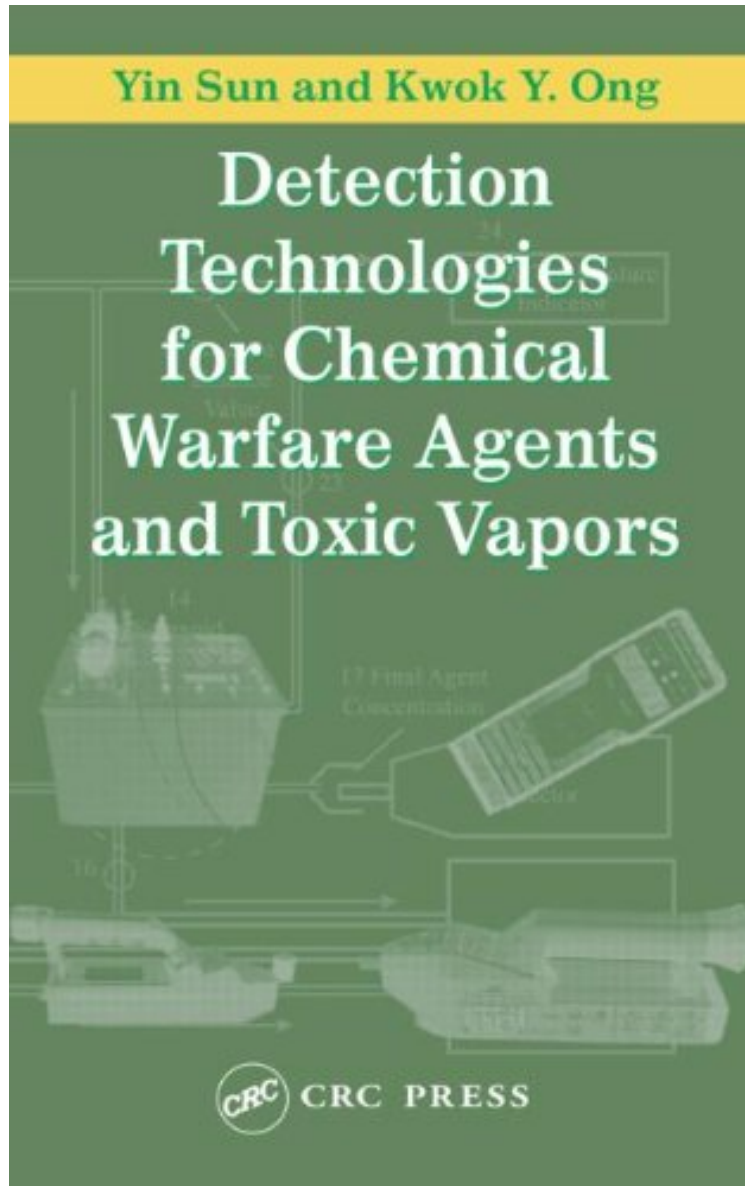


(Free) Detection Technologies for Chemical Warfare Agents and Toxic Vapors

Detection Technologies for Chemical Warfare Agents and Toxic Vapors

Yin Sun, Kwok Y. Ong
audiobook / *ebooks / Download PDF / ePub / DOC



[Download](#)

[Read Online](#)

#4212206 in Books CRC Press 2004-08-12 Original language: English PDF # 1 9.21 x .69 x 6.14l, 1.22 #File Name: 1566706688288 pages | File size: 15.Mb

Yin Sun, Kwok Y. Ong : Detection Technologies for Chemical Warfare Agents and Toxic Vapors before purchasing it in order to gauge whether or not it would be worth my time, and all praised Detection Technologies for Chemical Warfare Agents and Toxic Vapors:

5 of 5 people found the following review helpful. CWA review book By Douglas Parrish The "Detection Technologies for CWAs and Toxic Vapors" is a good introductory book. The authors did a decent job of reviewing basic instrument technology. Personally, I was looking for an integrated sampling plan and specific equipment recommendations- the authors failed to address those areas. It also uses dated material- many of the documents referenced were 1997 Army tests, which have sometimes been superseded. At \$125 for a small book, it's overpriced for the general market (first responders) and lacking in details for the specific chem warfare chemist market. It's a good introduction to testing methodology and reads like one of the SBCCOM/RDECOM testing manuals (that's because the authors work there).

While it is not possible to predict or necessarily prevent terrorist incidents in which chemical warfare agents (CWAs) and toxic industrial chemicals (TICs) are deployed, correctly chosen, fast, and reliable detection equipment will allow prepared rescue workers to respond quickly and minimize potential casualties. Detection Technologies for Chemical Warfare Agents and Toxic Vapors discusses the principles, instrumentation, and context for applying technologies such as ion mobility spectrometry, infrared spectroscopy, colorimetric chemistry, and flame ionization to the detection of TICs and lethal CWAs. It conveys techniques some of which have been patented by the authors developed for generating vapors and closely imitating potential environmental effects in a laboratory setting, specifically for the testing and evaluation of hand-held, portable, and remote devices. This book also provides a comprehensive list of toxic industrial chemicals classified in terms of hazardousness and their physical, chemical, and toxicological properties. Following a brief historical overview, the text also includes a review of federal detection requirements and the governments rationale for preparedness and response. By providing insight on the behavior of toxic chemicals, the authors hope to minimize the fear and chaotic effect in a potential event involving chemical agents. Well written and accessible to technical and non-technical audiences, no other book focuses on analytical methods and explains current detection devices for chemical warfare agents.

The book offers the most comprehensive resource available on the subject for technical and emergency response personnel.- International Journal of Environmental Analytical Chemistry, July 2005 The book offers the most comprehensive resource available for the subject and serves as a reference to workers in chemistry, emergency toxicology, military science, occupational hygiene, chemical engineering and detection instrumentation. It is an excellent text outlining the detection techniques for chemical warfare agents.-Journal of Applied Toxicology, C. Winder, School of Safety Science, University of New South Wales, Sydney, NSW, Australia