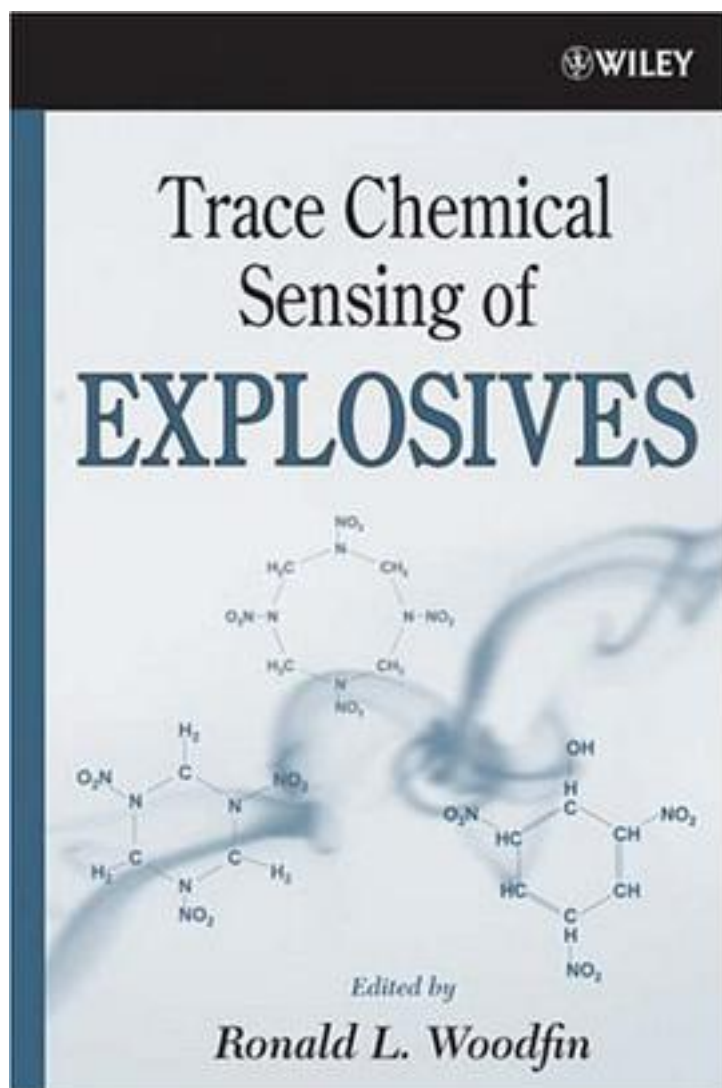


Trace Chemical Sensing of Explosives



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This timely book covers the most recent developments in the chemical detection of explosives in a variety of environments. Beginning with a broad view of the need for and the potential applications of chemical sensing, the book considers the issue of how to effectively include chemical sensing into systems designed to find hidden explosives devices. Offering a firsthand look at the latest technologies direct from those who are actively developing them, the book features: A look at the history of the field, including the contributions of recent programs A brief explanation of the chemistry of various explosives and differences in the place where they may be detected An introduction to the problems presented by trace element sensing An overview and comparison of the technologies currently being used and developed Case studies of field experiences with chemical sensors A look at the emerging threat of non-traditional explosives This book is an important reference for explosives engineers, systems engineers involved in the development of related devices, government agencies and NGOs involved in demining efforts, military and law enforcement specialists in mines and explosive ordinance disposal (EOD), as well as environmental scientists and chemists involved in explosives research. In addition to providing field workers with knowledge that will help them decide where and how to search for explosives using chemical sensors. It will provide them with an understanding of the potential and the limitations of chemical sensing in their search for and identification of dangerous devices.

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