1. Record Nr. UNINA9910830422003321

Titolo	Chemical Weapons Convention chemicals analysis [[electronic resource]] : sample collection, preparation, and analytical methods / / edited by Markku Mesilaakso
Pubbl/distr/stampa	Chichester, West Sussex, England ; ; Hoboken, NJ, : Wiley, c2005
ISBN	1-280-28774-8 9786610287741 0-470-34032-0 0-470-01228-5 0-470-85425-1
Descrizione fisica	1 online resource (480 p.)
Altri autori (Persone)	MesilaaksoMarkku
Disciplina	327.1745 623.4/592/0287
Soggetti	Chemical arms control - Verification Chemistry, Analytic
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	CHEMICAL WEAPONS CONVENTION CHEMICALS ANALYSIS Sample Collection, Preparation and Analytical Methods; About the Editor; Contents; List of Contributors; Preface; CHAPTER 1 Introduction; CHAPTER 2 Sampling and Analysis in the Chemical Weapons Convention and the OPCW Mobile Laboratory; CHAPTER 3 On-site Analysis by the Inspection Team. Sampling, Analysis, Equipment, Procedures and Strategies; CHAPTER 4 The OPCW Gas Chromatograph/Mass Spectrometer for On-site Analysis. Instrumentation, AMDIS Software and Preparations for Use; CHAPTER 5 Hazardous Environment Monitoring CHAPTER 6 A Comprehensive Review of the Official OPCW Proficiency TestCHAPTER 7 The OPCW Central Analytical Database; CHAPTER 8 Analysis Strategy for Analysis of Chemicals Related to the Chemical Weapons Convention in an Off-site Laboratory; CHAPTER 9 Sample Preparation for Analysis of Chemicals Related to the Chemical Weapons Convention in an Off-site Laboratory; CHAPTER 10 Gas

Chromatography in Screening of Chemicals Related to the Chemical Weapons Convention; CHAPTER 11 Gas Chromatography/Mass Spectrometry in Analysis of Chemicals Related to the Chemical Weapons Convention
CHAPTER 12 Liquid Chromatography/Mass Spectrometry in Analysis of Chemicals Related to the Chemical Weapons ConventionCHAPTER 13 Nuclear Magnetic Resonance Spectroscopy in Analysis of Chemicals Related to the Chemical Weapons Convention; CHAPTER 14 Fourier Transform Infrared Spectroscopy in Analysis of Chemicals Related to the Chemical Weapons Convention; CHAPTER 15 Capillary Electrophoresis in Analysis of Chemicals Related to the Chemical Weapons Convention; CHAPTER 16 Methods for the Retrospective Detection of Exposure to Toxic Scheduled Chemicals. Part A: Analysis of Free Metabolites
CHAPTER 17 Methods for Retrospective Detection of Exposure to Toxic Scheduled Chemicals. Part B: Mass Spectrometric and Immunochemical Analysis of Covalent Adducts to Proteins and DNAColour Plate; Index

Sommario/riassunto

Describes the procedures for collection of samples, sample preparation, and analysis of CWC-related chemicals. It deals with analytical procedures that can be followed in well-equipped off-site laboratories (designated laboratories), as well as the on-site analytical procedures that the OPCW inspectors use in sample collection and preliminary analysis of the samples in field conditions.A one-of-a-kind, highly topical handbook for every expert in the chemical weapons fieldOutlines the methods for analysing chemical weapons both on and off siteAuthored by international experts in

2. Record Nr. UNINA9910409687103321

Autore	Filippov Alexander E
Titolo	Combined Discrete and Continual Approaches in Biological Modelling / / by Alexander E. Filippov, Stanislav N. Gorb
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-41528-7
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (xviii, 317 pages)
Collana	Biologically-Inspired Systems, , 2211-0607 ; ; 16
Disciplina	574.0184
Soggetti	Bioinformatics Surfaces (Physics) System theory Zoology Botany Biology - Technique Computational and Systems Biology Surface and Interface and Thin Film Complex Systems Plant Science Biological Techniques
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Introduction -- Chapter 2. Various methods of pattern formation -- Chapter 3. Clusterization of biological structures with high aspect ratio -- Chapter 4. Contact between biological attachment devices and rough -- Chapter 5. Anisotropic friction in biological systems -- Chapter 6. Mechanical interlocking of biological fasteners -- Chapter 7. Biomechanics at the microscale -- Chapter 8. Nanoscale pattern formation in biological surfaces -- Chapter 9. Ecology and evolution.
Sommario/riassunto	Basic laws of nature are rather simple, but observed biological structures and their dynamic behaviors are unbelievably complicated. This book is devoted to a study of this “strange” relationship by

applying mathematical modeling to various structures and phenomena in biology, such as surface patterns, bioadhesion, locomotion, predator-prey behavior, seed dispersal, etc. and revealing a kind of self-organization in these phenomena. In spite of diversity of biological systems considered, two main questions are (1) what does self-organization in biology mean mathematically and (2) how one can apply this knowledge to generate new knowledge about behavior of particular biological system? We believe that this kind of “biomimetics” in computer will lead to better understanding of biological phenomena and possibly towards development of technical implications based on our modeling.