

1. Record Nr.	UNINA9910457927603321
Autore	Beatie Russel H
Titolo	Army of the Potomac [[electronic resource]] : McClellan's first campaign, March 1862-May 1862. Volume III / / Russel H. Beatie
Pubbl/distr/stampa	New York, : Savas Beatie, 2007
ISBN	1-61121-021-6
Edizione	[1st ed.]
Descrizione fisica	1 online resource (864p.) : 30 maps, 18 b&w photos
Disciplina	973.7349
Soggetti	Command of troops - History - 19th century Electronic books. United States History Civil War, 1861-1865 Campaigns
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.

2. Record Nr.	UNINA9910337933303321
Autore	Pflieger Rachel
Titolo	Characterization of Cavitation Bubbles and Sonoluminescence // by Rachel Pflieger, Sergey I. Nikitenko, Carlos Cairós, Robert Mettin
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-11717-0
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (VIII, 74 p.)
Collana	Ultrasound and Sonochemistry, , 2511-123X
Disciplina	543.2-543.8 532.597
Soggetti	Spectrum analysis Acoustics Chemistry, Physical and theoretical Spectroscopy/Spectrometry Physical Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Single Bubble Dynamics, Multi-Bubble Dynamics and Interactions, Object Interaction, Collapse Geometries and Consequences -- Chapter 2: MBSL Spectra Including Metal and C2 Emission, Bubble size Measurements etc -- Chapter 3: Relevance of Chapters 1 and 2 in Sonochemistry, Sonochemiluminescence, etc.
Sommario/riassunto	This book presents the latest research on fundamental aspects of acoustic bubbles, and in particular on various complementary ways to characterize them. It starts with the dynamics of a single bubble under ultrasound, and then addresses few-bubble systems and the formation and development of bubble structures, before briefly reviewing work on isolated bubbles in standing acoustic waves (bubble traps) and multibubble systems where translation and interaction of bubbles play a major role. Further, it explores the interaction of bubbles with objects, and highlights non-spherical bubble dynamics and the respective collapse geometries. It also discusses the important link between bubble dynamics and energy focusing in the bubble, leading to sonochemistry and sonoluminescence. The second chapter focuses

on the emission of light by cavitation bubbles at collapse (sonoluminescence) and on the information that can be gained by sonoluminescence (SL) spectroscopy, e.g. the conditions reached inside the bubbles or the nature of the excited species formed. This chapter also includes a section on the use of SL intensity measurement under pulsed ultrasound as an indirect way to estimate bubble size and size distribution. Lastly, since one very important feature of cavitation systems is their sonochemical activity, the final chapter presents chemical characterizations, the care that should be taken in using them, and the possible visualization of chemical activity. It also explores the links between bubble dynamics, SL spectroscopy and sonochemical activity. This book provides a fundamental basis for other books in the Molecular Science: Ultrasound and Sonochemistry series that are more focused on applied aspects of sonochemistry. A basic knowledge of the characterization of cavitation bubbles is indispensable for the optimization of sonochemical processes, and as such the book is useful for specialists (researchers, engineers, PhD students etc.) working in the wide area of ultrasonic processing.
