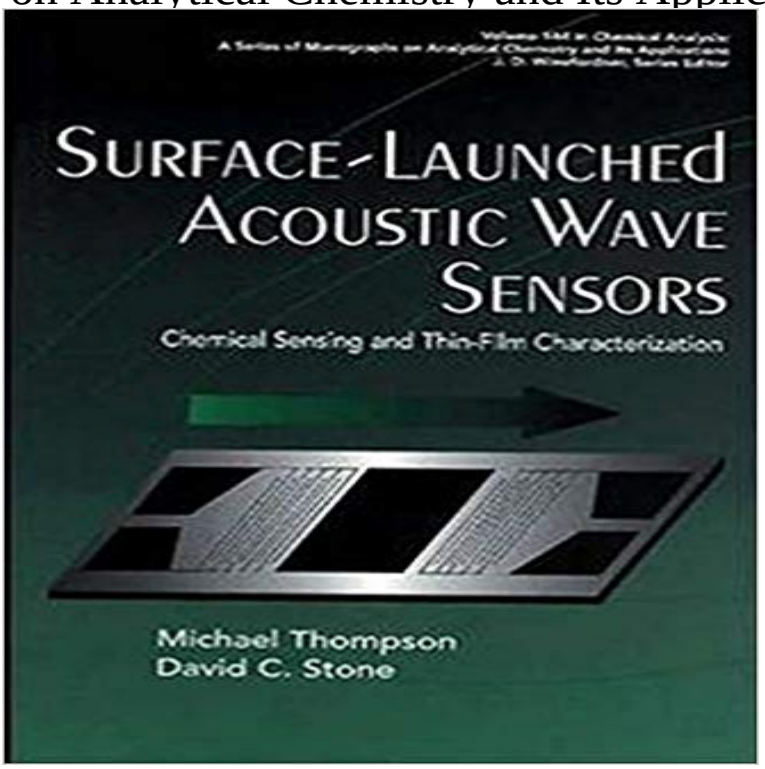
Surface-Launched Acoustic Wave Sensors: Chemical Sensing and Thin-Film Characterization (Chemical Analysis: A Series of Monographs on Analytical Chemistry and Its Applications)



With respect to chemical applications, surface-launched acoustic wave sensors were originally developed as sensing devices for specific chemical and biological species, but more recently have been applied to the study of thin film and interfacial properties. These devices exploit the phenomenon of piezoelectricity, the instigation of mechanical motion in solids by oscillating electrical fields. This book presents the principles of design and operation of these sensors and explores their traditional and emerging applications with a focus on devices that employ acoustic waves launched and received on the same surface. Surface-Launched Acoustic Wave Sensors begins with a review of piezoelectricity and the genesis of acoustic wave devices, and the advent of chemical sensor technology. Subsequent chapters explore acoustic waves in solids and device structure, theory of acoustic wave response, and the various categories of acoustic wave device. The book describes the design of these devices and how they are applied in chemistry for the detection of species present in the gas and liquid phase, as well as the study of thin films placed on the sensor surface. Other topics covered include polymeric glass transitions, polymer properties, biosensor technology, and the development of sensor arrays. Each of the various types of device is examined with a view toward its application in chemistry in general and analytical chemistry in particular. Presenting the most up-to-date information available on this rapidly evolving technology, and supplemented with scores of helpful illustrations and tables, Surface-Launched Acoustic Wave Sensors draws information from such diverse areas of scientific investigation as acoustic wave physics, applied mathematics, chemistry, electronics, fluid mechanics, materials science, piezoelectricity, and polymer science. The material presented on these

topics is both self-consistent and readable for the nonexpertallowing industrial chemists, graduate students, and undergraduates to gain a deeper understanding of these devices, their designs, and applications. This book concerns the design, operation, and application of devices capable of generating acoustic waves in the ultrasonic frequency range. The clear emphasis of the text is the study of chemical and/or biochemical systems imposed on the surface of such devices, whether operated in the gas or liquid phase, i.e., on acoustic wave chemical and biological sensors. Presenting the most up-to-date information available on this rapidly evolving technology, and supplemented with scores of helpful illustrations and tables, Surface-Launched Acoustic Wave Sensors: Reviews piezoelectricity and the genesis of acoustic wave devices as well as the advent of chemical sensor technology Explores acoustic waves in solids and device structure, theory of acoustic wave response, and the various categories of acoustic wave device Describes device design and how these devices are applied in chemistry to detect species present in the gas and liquid phase, as well as to study thin films placed on the sensor surface Covers polymeric glass transitions, polymer properties, biosensor technology, and the development of sensor arrays

Et les renforts arrivent encore Bon Ã§a sera la derniÃ¨re revue de troupes de la semaine. Donc on arrive Ã 300 figurines il en reste donc 420... mais Ã§a va Ã§a avance bien. Je m'amuserais surtout sur les petites piÃ¨ces. LÃ c'est du monobloc donc mÃªme si la ligne de moulage est visible -donc il faut Ã©barber presque tout le tour de la figurine... oui oui.- Comme Ã chaque dÃ©but de dÃ©fi, je suis dans les temps, limite mieux qu'espÃ©rer. Mais par expÃ©rience je sais que c'est le creux du dÃ©fi qui m'est fatal donc on verra quand j'aurais tout Ã©barbÃ© :) PubliÃ© par CdtK Ã 17:37 4 commentaires: Liens vers cet article Envoyer par e-mail BlogThis! Partager sur Twitter Partager sur Facebook Partager sur Pinterest LibellÃ©s : Blabla lundi 1 aoÃ»t 2016 Revue des troupes Bon juste une petite photo pour montrer que je passe Ã l'infanterie. j'adore l'Ã©barbage. Oui certains diront que Ã§a fait parti du hobby mais c'est vraiment ce que je dÃ©teste le plus. Et puis lÃ c'est de l'industriel. PubliÃ© par CdtK Ã 17:06 2 commentaires: Liens vers cet article Envoyer par e-mail BlogThis! Partager sur Twitter Partager sur Facebook Partager sur Pinterest LibellÃ©s : Blabla vendredi 22 juillet 2016 Pour une poignÃ©e de trous en plus VoilÃ les plaquettes de 6cm ont Ã©tÃ© percÃ©... 1200 trous... oui oui. 1200 trous dans du plexi -vous savez le truc qui se colle une fois sur deux sur la mÃ¨che. Mais voilÃ pour les 6cm c'est fini et je verrais pour les 8cm de front plus tard -je dirais fin aoÃ»t-. Mais Ã quoi Ã§a correspond? Donc dire des trous c'est bien mais Ã§a renseigne pas beaucoup alors 1200 trous c'est : 594 soldats -de lÃ©ger Ã lourd- 231 cavaliers et 24 canons avec 4 artilleurs. Oui monsieur. Bon alors je

suis dÃ©Ã§u de ne pas avoir plus de soldats Ã pied. C'est pas super grave, je doute que toutes les plaquettes soient un jour sur la mÃªme table. Mais bon quand on voit que pour 30e -3 plaquettes- j'ai pu fait celle lÃ et autant en 8cm, Ã§a va. Il faut voir ce que cela m'aurait coutÃ© dans le commerce. On y rajoute le prix des aimants -15e les 1000 fdpin- et j'ai quand mÃªme un trÃ¨s bon rapport qualitÃ©-prix par rapport Ã ce que je recherchais. Il le reste Ã Ã©barber les trous pour y glisser l'aimant et Ã§a sera parfait je pourrais retourner Ã mes figurines. PubliÃ© par CdtK Ã 09:52 2 commentaires: Liens vers cet article Envoyer par e-mail BlogThis! Partager sur Twitter Partager sur Facebook Partager sur Pinterest LibellÃ©s : 28mm, Blabla jeudi 14 juillet 2016 florian.bardi. ThÃ¨me Voyages. Images de thÃ¨mes de Storman. Fourni par Blogger.

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