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## Fondamenti Di Chimica Michelin Munari

**Marcello Giomini** 

#### Fondamenti Di Chimica Michelin Munari:

Fondamenti di chimica per ingegneria Rino A. Michelin, Andrea Munari, 1998 Elementi di Chimica Fisica Agostino Desalvo, Andrea Munari, 2010-02-01 Come ben noto a chi si occupa di qualunque tipo di progettazione ad es di una struttura di una macchina di un dispositivo ecc questa non pu assolutamente prescindere dalle propriet dei materiali a disposizione Inoltre la conoscenza delle correlazioni propriet struttura consente di scegliere ed anche ideare materiali adatti a specifiche applicazioni E proprio l'utilizzo di materiali avanzati citiamo un esempio noto a tutti quello dei materiali nanostrutturati che oggi sono oggetto di approfondite ricerche che sta consentendo grandi balzi in avanti in quasi tutti i campi dell'Ingegneria Ci particolarmente vero nel campo dell'elettronica dove la necessit di una sempre maggiore miniaturizzazione dei circuiti e dei dispositivi si sta tuttavia scontrando con la difficolt di reperire materiali adatti tenendo conto che passando dalla microelettronica alla nanoelettronica si manifestano sempre pi rilevanti gli effetti quantistici E quindi necessario che agli studenti delle Facolt di Ingegneria siano fornite le basi di Chimica e di Fisica che consentano loro innanzitutto di comprendere la struttura di un materiale a queste devono essere poi aggiunte nozioni pi approfondite e specifiche per collegare le diverse propriet alla struttura stessa In quest ottica il presente testo rivolto agli studenti dei Corsi di Laurea in Ingegneria Elettronica che nelle diverse Sedi hanno oggi assunto varie denominazioni si propone di fornire in modo semplice ed utilizzando strumenti matematici relativamente poco complessi le nozioni indispensabili per lo studio e l interpretazione delle propriet elettriche ed ottiche dei materiali di largo impiego nel campo dell elettronica con particolare riguardo ai semiconduttori Esso nasce dall'esperienza didattica maturata dagli Autori nello svolgimento di un corso sulle propriet chimico fisiche dei materiali rivolto agli allievi ingegneri elettronici che ha avuto come titolari prima A Desalvo ora a riposo e poi sino ad oggi A Munari Il testo si articola nel modo sequente Dopo aver richiamato le caratteristiche fondamentali delle onde elettromagnetiche e delle onde di materia con particolare riferimento a quelle relative agli elettroni Cap I viene presentata la risoluzione dell'equazione di Schr dinger in alcuni casi particolari Cap II il gradino e la barriera di potenziale con particolare riferimento all effetto tunnel la buca di potenziale a pareti infinite e l'oscillatore armonico monodimensionale Successivamente Cap III viene analizzato il legame covalente puro e quello polarizzato nelle molecole biatomiche mediante il metodo degli Orbitali Molecolari ottenendo risultati che saranno successivamente utilizzati per la descrizione del legame nei solidi tramite la teoria del tight binding Nel Capitolo IV vengono introdotte le nozioni fondamentali di cristallografia la nozione di reticolo reciproco e sono quindi analizzati i fenomeni di diffrazione dei raggi X e degli elettroni da parte dei reticoli cristallini con le relative applicazioni allo studio della struttura dei cristalli e alla microscopia elettronica Nel Capitolo V vengono studiate le vibrazioni nelle molecole e nei cristalli con accenni alle tecniche spettroscopiche infrarosse e Raman per l'analisi di queste propriet nei materiali mentre nel Capitolo VI viene analizzato il legame nei cristalli mediante il modello dell elettrone quasi libero e quello del tight binding Entrambi i metodi vengono estesi al caso dei semiconduttori ed in

particolare analizzata la dipendenza del gap di energia proibita dalla composizione per i semiconduttori composti Osserviamo che la trattazione dei semiconduttori mediante il metodo del tight binding che mette in evidenza la relazione tra il gap di energia proibita e la forza del legame covalente non si trova comunemente nei testi pi diffusi Tale trattazione comunque indispensabile per comprendere la struttura a bande dei semiconduttori amorfi sui quali ha lavorato uno di noi A D che altrimenti risulta inspiegabile utilizzando gli usuali metodi validi per un reticolo periodico Sono poi studiate le propriet elettriche dei metalli e dei semiconduttori Cap VII con particolare attenzione alla dipendenza dalla temperatura del numero dei portatori e della mobilit in guesti ultimi ed infine nel Capitolo VIII vengono esaminate le propriet ottiche dei metalli dei semiconduttori e degli isolanti nell infrarosso nel visibile e nell ultravioletto Vogliamo sottolineare che nei casi semplici la trattazione matematica stata sviluppata per intero mentre in quelli pi complessi ci si limitati a riportare e commentare il risultato finale Il lettore potr a limitarsi a ci anche nei casi pi semplici mentre lo studente pi portato alla matematica potr seguire senza difficolt le dimostrazioni Nel testo si usato il sistema di unit SI salvo che nel capitolo VIII relativo alle propriet ottiche dove si preferito l'uso del sistema CGS perch in questo caso quello pi diffuso dato che molte espressioni matematiche Professione studente 30 e lode MATTEO SALVO, ELISABETTA risultano in tal modo pi semplici GALLI,2019-06-18T00:00:00+02:00 Sfruttando la capacit della mente di creare immagini e associazioni grazie a molte illustrazioni che rendono immediata la spiegazione gli autori insegnano a memorizzare e apprendere in modo facile veloce e divertente giurisprudenza ingegneria matematica lettere storia chimica qualsiasi siano le nozioni da apprendere questo manuale permetter di raggiungere i propri obiettivi senza sforzo Dalla teoria alla pratica per diverse materie sono forniti esempi di esami e prove per mettere in pratica le tecniche di apprendimento esercitarsi con le mappe mentali migliorare la propria metodologia di studio e acquisire le strategie per un esposizione chiara e una comunicazione pi efficace dei concetti studiati Bibliografia nazionale italiana ,1999 Catalogo dei libri in commercio, 1997 L'Informazione Giornale della libreria ,2000 bibliografica ,1992 Rivisteria .1994 Bollettino del Servizio per il diritto d'autore e diritti connessi ,1998-10 Giornale della libreria, della tipografia, e delle arti e industrie affini ,1986 Fondamenti di chimica Rino A. Michelin, Andrea Munari, 2011 Fondamenti di chimica per le tecnologie Rino A. Michelin, Andrea Munari, 2002 Fondamenti di chimica generale Peter W. Atkins, Loretta Jones, 2014 Fondamenti di chimica Adriano Sacco, 1996 Fondamenti di chimica generale e organica, Fondamenti di chimica inorganica ed FONDAMENTI DI CHIMICA GENERALE 4/ED. Jason Overby, 2024 FONDAMENTI DI organica Marcello Giomini,1980 CHIMICA GENERALE 4 ED Fondamenti di chimica Paolo Silvestroni, 1967 Principi di chimica Richard E. Dickerson, Harry Barkus Gray, Gilbert P. Haight, 1984 Fondamenti di chimica generale Marcello Giomini, 1979

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