

Handbook On The Physics And Chemistry Of Rare Earths Volume 21 Handbook On The Physics And Chemistry Of Rare Earths

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orchardgrass and alfalfa forages were ensiled by various treatments of air exclusion or inclusion to provide silages of different qualities the forages were prepared in this manner to study the bacteriological and chemical processes in good and poor silages it was felt that a knowledge of the underlying mechanism involved in forages of this type would aid in establishing better silage making techniques the results of this study showed that different quality silages could be obtained by varying the amount of air excluded or included in forages the good quality silages were characterized by ph values of 4.8 or below low ammoniacal nitrogen and considerable amounts of lactic acid some of these silages contained traces of butyric acid and low spore counts but usually none were found a reversal of these values was noted for the poor quality silages the intermediate quality silages showed values similar to both the good and poor quality silages

this dictionary consists of some 63 000 terms and over 100 000 translations drawn from all of the main areas of chemistry and chemical technology

the second edition of the chemistry of the superheavy elements provides a complete coverage of the chemistry of a series of elements beginning with atomic number 104 the transactinides or superheavy elements including their nuclear properties and production in nuclear reactions at heavy ion accelerators the contributors to this work include many renowned scientists who during the last decades have made vast contributions towards understanding the physics and chemistry of these elusive elements both experimentally and theoretically the main emphasis here is on demonstrating the fascinating studies involved in probing the architecture of the periodic table at its uppermost end where relativistic effects drastically influence chemical properties all known chemical properties of these elements are described together with the experimental techniques applied to study these short lived man made elements one atom at a time the status of theoretical chemistry and of empirical models is presented as well as aspects of nuclear physics in addition one chapter outlines the meanderings in this field from a historical perspective and the search for superheavy elements in nature

the book is a follow up to the computerized fullerene bibliography related to the 1985 1993 period it is a well indexed overview of the journal literature on a topic for which the 1996 nobel prize in chemistry was awarded it is an indispensable tool for any specialist interested in the literature of one of the most researched interdisciplinary topics in the sciences

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