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*presents the recent changes that  
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application of ion-radicals in  
typical conditions of organic*

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*synthetic opportunities, and practical applications. Additional topics include electronic and optoelectronic devices, organic magnets and conductors, lubricants, other materials, and reactions of industrial or biomedical*

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*volume, it is widely shared. To my mind a particularly happy aspect of the existence of linear free energy relationships has been the proof it supplies that one need not suppose that the behavior of nature is hopelessly complicated merely*

*because one cannot find a theoretical reason for supposing it to be otherwise. The effect of a substituent in an organic molecule on rate or equilibrium of reaction involves a fourfold difference between relatively large quantities,*

*a situation which always makes for difficult theory. Yet systematic organic chemistry could hardly have existed were it not true that like changes in structure lead to like changes in reactivity. Linear free energy relationships constitute the*



*quantitative specialisation of this fundamental principle, and they stand indeed more in the office of teacher to theory than in that of learner from it.*

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requires mastery in two  
core aspects:  
fundamental concepts and  
the skills needed to  
apply those concepts and  
solve problems. Students

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must learn to become  
proficient at  
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situations methodically,  
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vital for successful

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Existing textbooks  
provide extensive  
coverage of the  
principles but there is  
far less emphasis on the

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skills needed to  
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Integrating 52  
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laboratory text allows all schools-even those that cannot afford a large investment in commercial kits-to do effective microscale experiments. You'll also



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of laboratory techniques  
for the handling,  
synthesis, separation,  
and purification of  
organic compounds; and  
inclusion of  
spectroscopic methods

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for the identification  
of compounds.

Aniline is the parent  
molecule of a vast  
family of aromatic  
amines. Since its  
discovery in 1826 it has

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become one of the  
hundred most important  
building blocks in  
chemistry. Aniline is  
used as an intermediate  
in many different fields  
of applications, such as

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isocyanates, rubber  
processing chemicals,  
dyes and pigments,  
agricultural chemicals  
and pharmaceuticals. The  
understanding of  
functional groups is key

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for the understanding of  
all organic chemistry.

In the tradition of the  
Patai Series, this  
volume treats all  
aspects of this  
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contains chapters on the  
theoretical and  
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