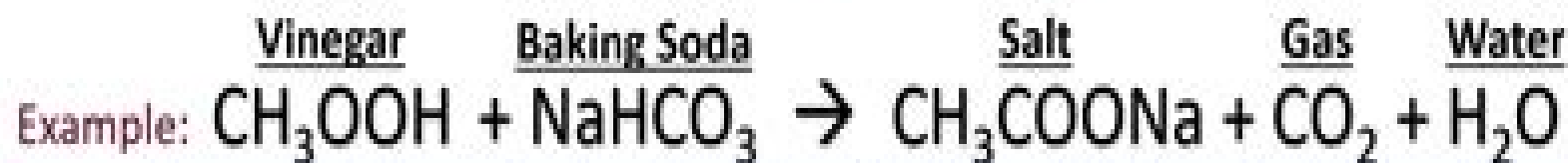
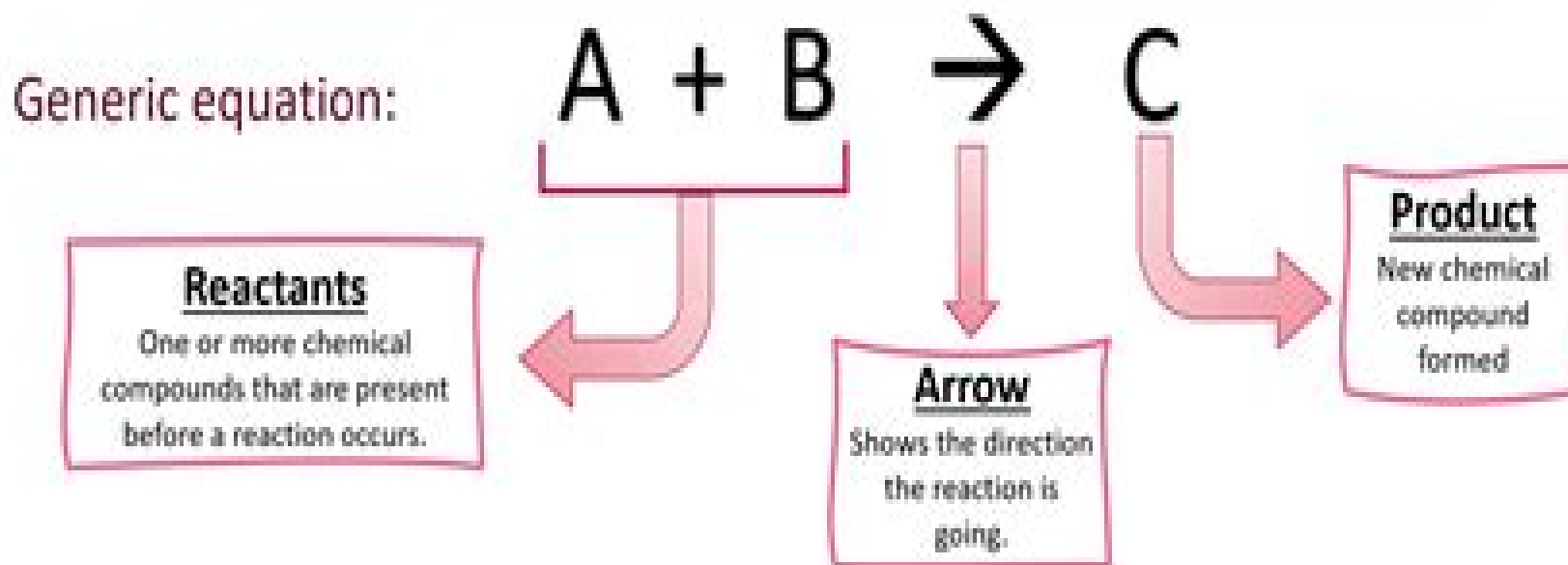


General Chemical Reaction Equations

Chemical reactions are often represented by equations. These equations give information about the reaction in a simplified way.



An example reaction is vinegar/acetic acid reacting with baking soda/sodium bicarbonate to form a salt/sodium acetate, gas/carbon dioxide, and water. This reaction can safely be done at home using ingredients found in your kitchen!

Reactions And Equations

**Tapio O. Salmi, Jyri-Pekka
Mikkola, Johan P. Wärnå**



Reactions And Equations:

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equation methods for parabolic problems and methods for stiff and non stiff ordinary differential equations ODEs With regard to time dependency we have attempted to present the algorithms and the discussion of their properties for the three different types of differential equations in a unified way by using semi discretizations i.e the method of lines whereby the PDE is transformed into an ODE by a suitable spatial discretization In addition for hyperbolic problems we also discuss discretizations that use information based on characteristics Due to this combination of methods this book differs substantially from more specialized textbooks that deal exclusively with numerical methods for either PDEs or ODEs We treat integration methods suitable for both classes of problems This combined treatment offers a clear advantage On the one hand in the field of numerical ODEs highly valuable methods and results exist which are of practical use for solving time dependent PDEs something which is often not fully exploited by numerical PDE researchers Although many problems can be solved by Euler's method or the Crank Nicolson method better alternatives are often available which can significantly reduce the computational effort needed to solve practical problems

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