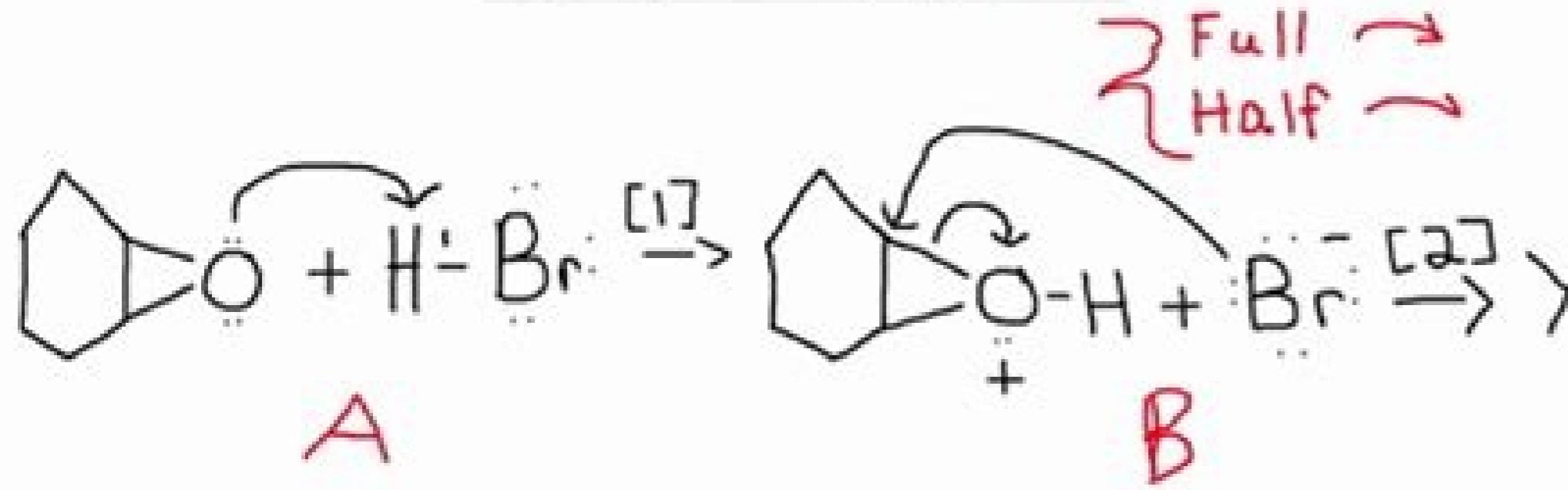
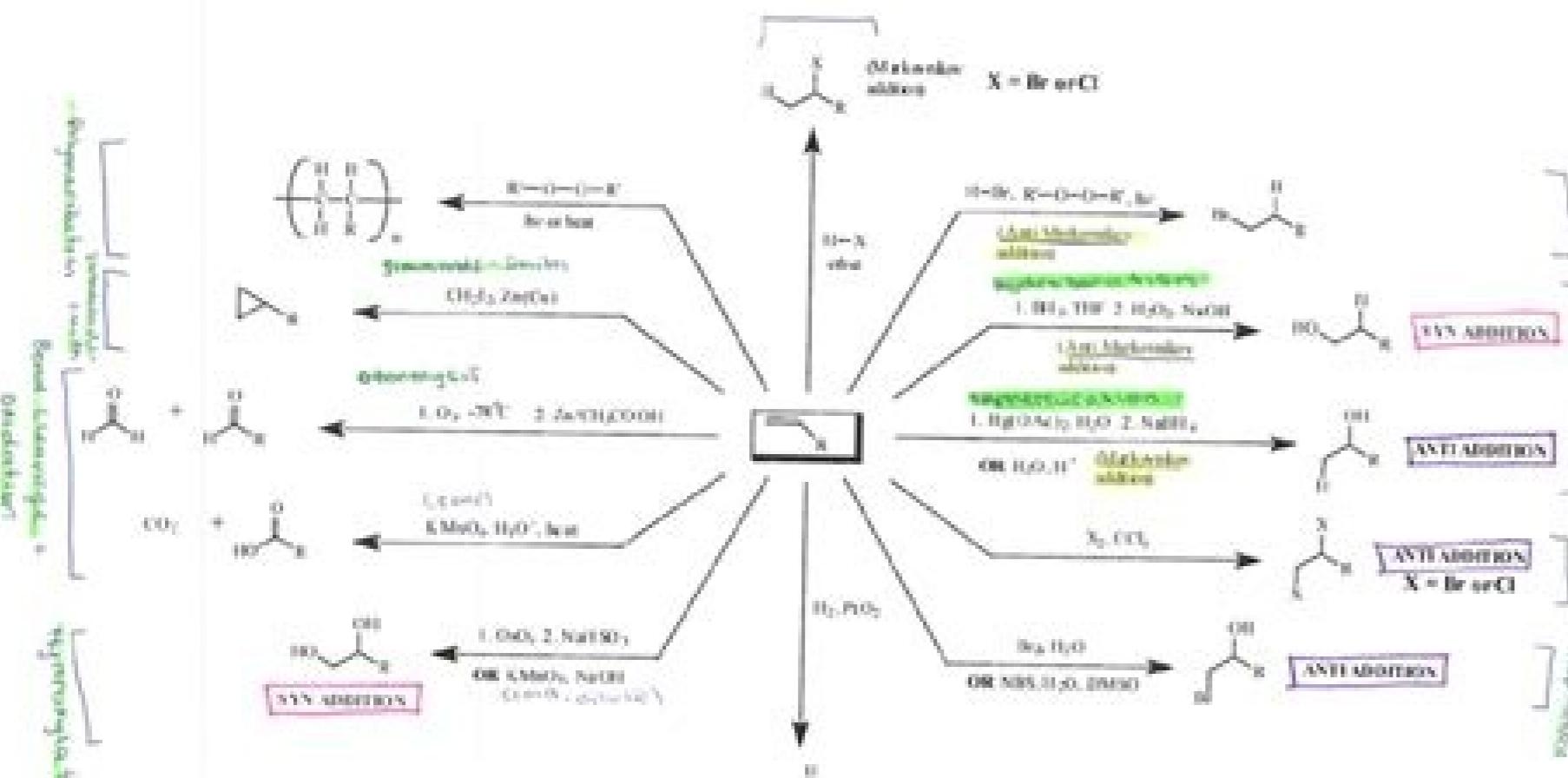


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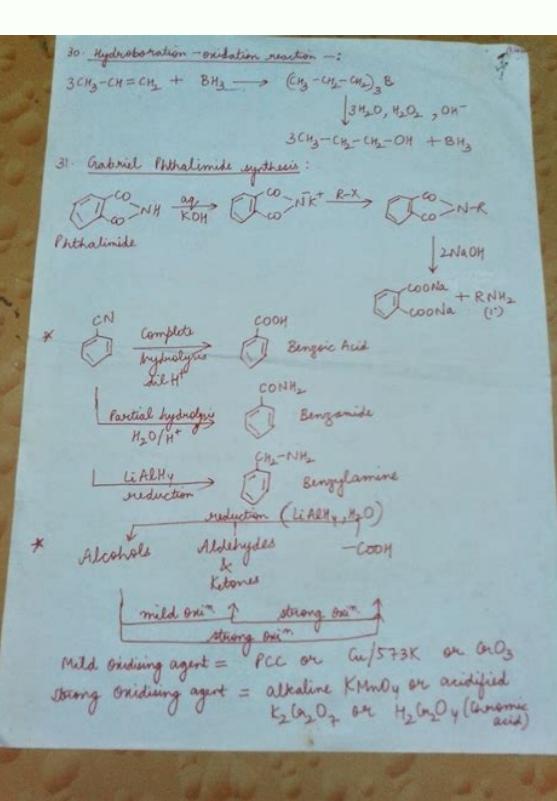


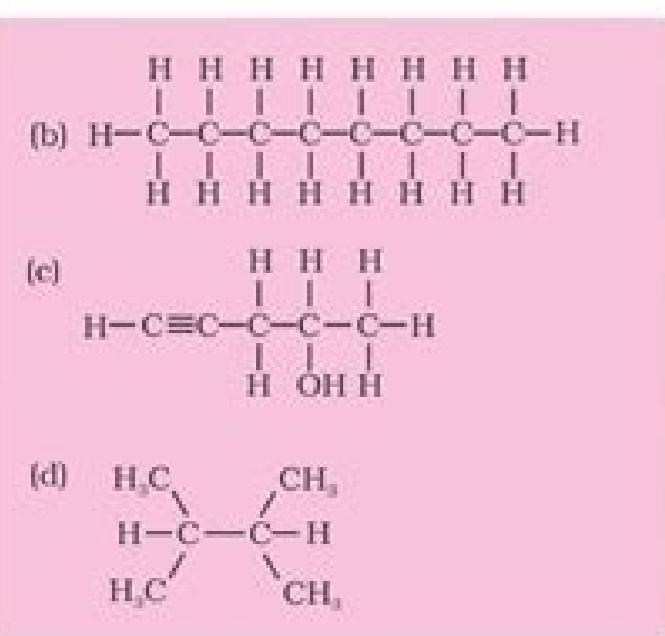
REACTIONS OF ALKENES



NOTES:

- 1) NBS = N-bromosuccinimide
- 2) Other catalysts may be used for hydroperoxidation, e.g. Pd/C
- 3) Addition of a carbene can also be achieved using CHCl_3





12.3.2 Three-Dimensional Representation of Organic Molecules

The three-dimensional (3-D) structure of organic molecules can be represented on paper by using certain conventions. For example, by using solid (—) and dashed (—) wedge formula, the 3-D image of a molecule from a two-dimensional picture can be perceived. In these formulas the solid-wedge is used to indicate a bond projecting out of the plane of paper, towards the observer. The dashed-wedge is used to depict the bond projecting out of the plane of the paper and away from the observer. Wedges are shown in such a way that the broad end of the wedge is towards the observer. The bonds lying in plane of the paper are depicted by using a normal line (—). 3-D representation of methane molecule on paper has been shown in Fig. 12.1.

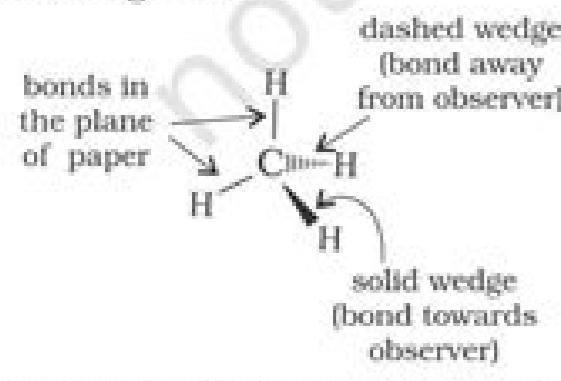


Fig. 12.1 Wedge-and-dash representation of CH_4

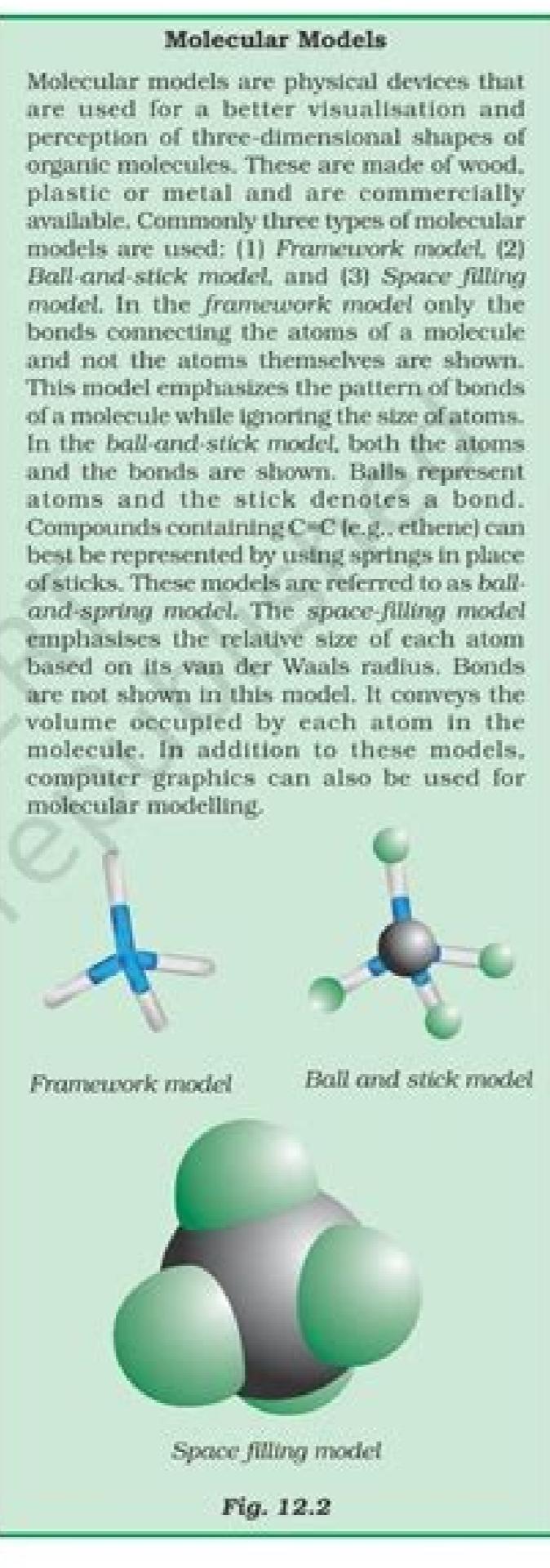


Fig. 12.2

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Name reactions honor the discoverers of groundbreaking chemical reactions or refinements of earlier known transformations in the way that many scientists have their names attached to an effect or a phenomenon, an equation, a constant, etc. In some cases, the person whose name is associated with the reaction was not the first to discover the reaction, but instead managed to popularize it. Reaction names can also simply describe the reaction type, often by using the initials or referring to structural features. As an example, a very important field in chemical synthesis is carbon-carbon bond formation, and a great many name reactions exist that describe such transformations. In this field, the development of a procedure for using organomagnesium compounds by Victor Grignard led to totally new addition reactions that expanded the scope of organic synthesis tremendously. In a historical twist, Grignard was not the first to use such reagents but rather simplified the procedure by generating the highly reactive reagent *in situ*. This popularized the use of the related transformations, which had previously been quite tedious as the sensitive organomagnesium reagents needed to be prepared separately and stored. What we now know as Grignard reagents are most often used in additions to carbonyl compounds that provide alcohols or other products in high yields, and this process is nowadays referred to as the Grignard reaction. In another important case, many C-C bond forming reactions are promoted by palladium catalysis, which results in a more efficient use of reagents and more readily accessible conditions. An example is the synthesis of biaryl moieties, substructures that occur frequently in compounds of interest in medicinal chemistry. As an indication of how useful these reactions are, the named reactions for many variants of these palladium-catalyzed biaryl coupling reactions became current within just a few years after discovery, even during lifetime of the respective authors, such as (Makoto) Kumada, (John Kenneth, or J.K.) Stille and (Akira) Suzuki (ring-closing metathesis) or INOC (intramolecular nitrile oxide cyclization). We seldom use the name of the chemist who developed RCM (Robert Grubbs) to refer to the reaction, but his contribution is instead acknowledged by applying his name to the ruthenium-catalysts used. Thus, we speak of the "Grubbs catalyst" or "2nd generation Grubbs catalyst". Besides names such as "RCM", some frequently used reactions are named for structural features of the precursor or product. Examples include the "aldol reaction" ("aldol" is an abbreviation of a compound that contains both aldehyde and alcohol functionalities) or the "pinacol rearrangement". Why must we learn dozens (or hundreds!) of name reactions? As mentioned above, name reactions are used to refer to groundbreaking reactions or the associated mechanisms or principles that are worthwhile knowing and keeping straight. Just as physicians must learn the names of organs and geologists the names of minerals, chemists or students of chemistry use name reactions as a way to organize their knowledge and communicate about chemical transformations. In laboratory discussions, people very often use name reactions to refer to experiments they are running or the chemical problems they are investigating. The name reaction is a type of shorthand that avoids the need to give a lengthier explanation of the features of a particular transformation of interest. Mentioning the name reaction allows a knowledgeable listener to bring to mind the possible substrates, reaction conditions, or mechanistic details. Everyone in the field is expected to know a basic set of name reactions by heart, and this makes discussions less time-consuming. In this way, name reactions have become part of the shared vocabulary of organic synthesis chemists. When meeting a fellow chemist, for example at a conference or during a job interview, it is possible to make an initial assessment of your listener's level and depth of expertise and experience by referring to an exotic name reaction. Such recognition can signal that a listener (or job candidate) has command of a particular area of chemistry. This means that he or she would be capable of understanding details of the synthetic routes in the work described, and could possibly develop alternatives.

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