An oxidation is always accompanied by a reduction and vice versa. An oxidation and a reduction occurring together is called an oxidation-reduction reaction or redox reaction.

**eg. 1:**

\[ \text{CH}_3\text{CH}==\text{CHCH}_3 + \text{H}_2 \xrightarrow{\text{catalyst: Pd}} \text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3 \]

**eg. 2:**

see also oxidizing agent, reducing agent

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**Contributors**

- Gamini Gunawardena from the OChemPal site (Utah Valley University)