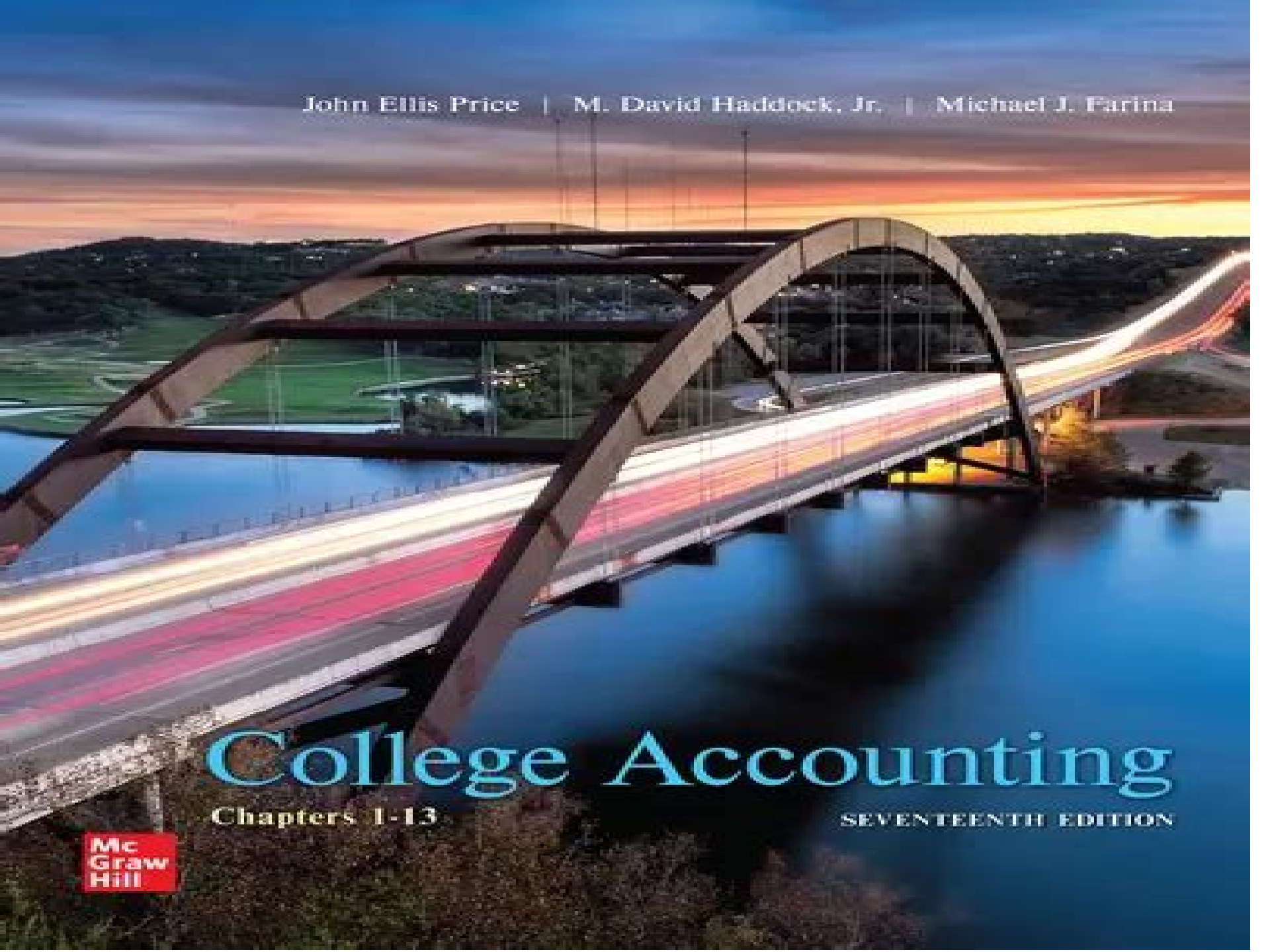




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can acidified or neutral kmno4 oxidise toluene to benzoic acid - Jan 08 2023

web oct 15 2014 1 answer sorted by 6 here are the three equations describing the reduction of manganese and concurrent oxidation of whatever substrate may be present under basic neutral and acidic conditions respectively $\text{MnO}_4^- + 7\text{H}^+ + 5\text{e}^- \rightarrow \text{Mn}^{2+} + 4\text{H}_2\text{O}$ $\text{MnO}_4^- + 4\text{H}^+ + 3\text{e}^- \rightarrow \text{MnO}_2 + 2\text{H}_2\text{O}$ $\text{MnO}_4^- + 2\text{H}_2\text{O} + 3\text{e}^- \rightarrow \text{MnO}_2 + 4\text{OH}^-$ basic $\text{MnO}_4^- + 2\text{H}_2\text{O} + 3\text{e}^- \rightarrow \text{MnO}_2 + 4\text{OH}^-$ basic

what is the mechanism of toluene oxidation by kmno4 reddit - Jul 14 2023

web mar 15 2019 what is the mechanism of toluene oxidation by kmno4 it is quite simple reaction that kmno4 can oxidize benzylic hydrogen in toluene and synthesize benzoic acid however i cannot find exact mechanism of reaction in

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web description treatment of an alkylbenzene with potassium permanganate results in oxidation to give the benzoic acid notes the position directly adjacent to an aromatic group is called the benzylic position the reaction only works if there is a hydrogen attached to the carbon examples

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web may 1 2004 the oxidation of toluene by aq KMnO_4 under hydrodynamic cavitation was taken as a model reaction and various parameters have been optimized the oxidation of toluene by aq KMnO_4 gives benzoic acid scheme 1 KMnO_4 in turn is reduced to MnO_2 the reaction did not give any other byproduct