

CATALYTIC DECOMPOSITION OF HYDROGEN
PEROXIDE OVER SINGLE, DOUBLE,
AND TRIPLE OXIDES

*A Thesis Presented
To
The Faculty of Science
Ain Shams University*

By

*Waleed Mokhtar Ahmed Shaheen
(M.Sc.)*

For
The Degree of Doctor of Philosophy
(Chemistry)

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*National Research Center
(1996)*





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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

الْحَمْدُ لِلَّهِ الْحَمْدُ
لَا إِلَهَ إِلَّا هُوَ مَا فِي السَّمَوَاتِ وَمَا فِي الْأَرْضِ
مِنْ شَيْءٍ يُشْفَعُ عِنْدَهُ إِلَّا بِإِذْنِهِ يُجَالِسُ الْأَنْبِيَاءَ
وَمَنْ خَلَقَ الْأَكْبَابُ يُشْفَعُونَ عِنْدَهُ لَا إِلَهَ إِلَّا هُوَ
وَيُشْفَعُ بِكُنُوتِ اللَّهِ عَلَى الْأَرْضِ وَالْأَوَّلِينَ
فِي كُلِّ مَوْضِعٍ هُوَ الْعَلِيُّ الْعَظِيمُ
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

To My Dearest Family

**"CATALYTIC DECOMPOSITION OF HYDROGEN
PEROXIDE OVER SINGLE, DOUBLE,
AND TRIPLE OXIDES"**

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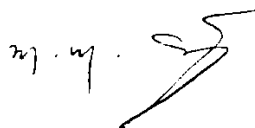
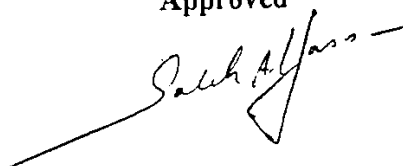
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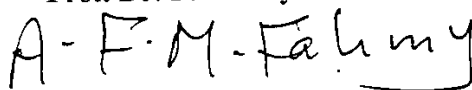
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