DEDICATION

This thesis is dedicated to my parents for their endless love, support and encouragement. This work is also dedicated to my beloved fiance who has been a constant source of support and encouragement.
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ABSTRACT

In this work, Inductive coil was used to measure the magnetic permeability of the matters using Alternating Current. Measurement of magnetic permeability for Air, Aluminum, Copper and Iron were done. The obtained results were compared with standard ones, and found to agree to a good degree with them.
مستخلص

في هذا العمل تم استخدام الملف الحثي لقياس النفاذية المغناطيسية للمواد باستخدام تيار متردد. تم قياس النفاذية المغناطيسية للهواء، الألومنيوم، النحاس والحديد. تم مقارنة النتائج المتحصل عليها مع النتائج القياسية. ووجد أنها متوافقة إلى درجة جيدة معها.