

HOUSECRAFT SCIENCE

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Housecraft science by E. D Griffiths

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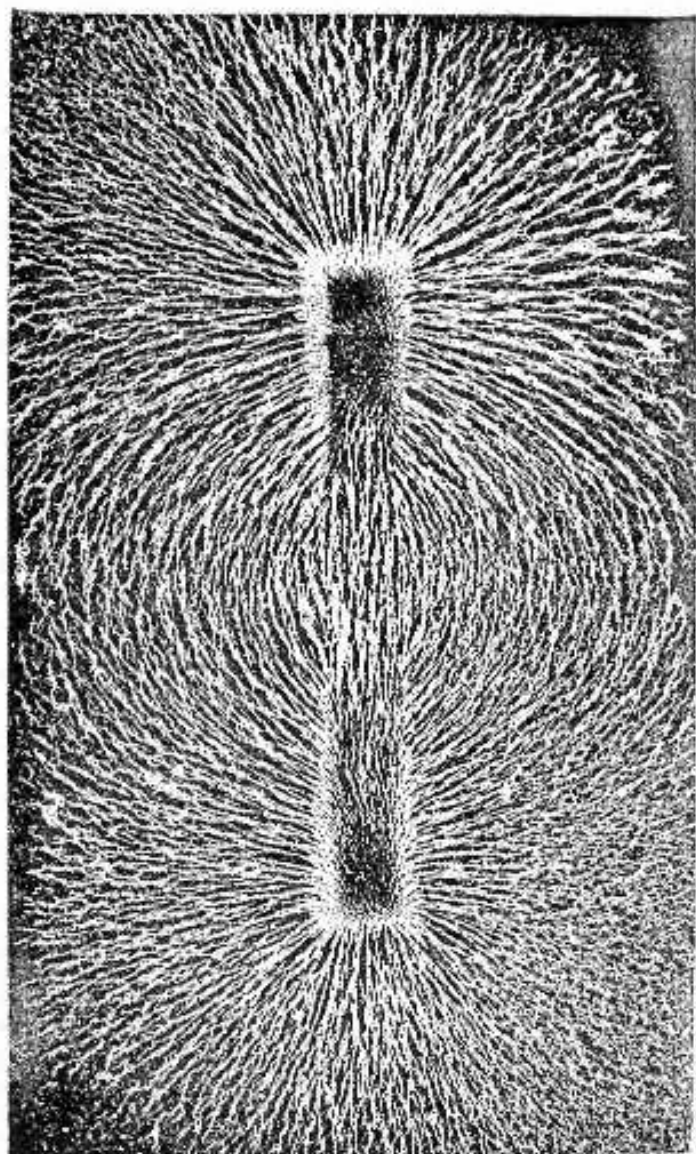
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Lines of Magnetic Force (see p. 173).

Plate I shows by a photograph of iron filings scattered on white paper how two powerful unlike magnetic poles, such as the ends of a large horse-shoe magnet, placed just beneath the paper, cause the filings to form curves or lines of magnetic force, between the two poles.

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HOUSECRAFT SCIENCE

BY

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PREFACE

THIS book is intended to stimulate independent investigation of those facts of elementary physics which explain everyday happenings in the home, and are capable of being established on an experimental basis. Measuring and weighing include plenty of household applications, while ventilation and warming are fully dealt with in the section on heat, and suggestions are made for promoting efficiency. Lubricants and anti-lubricants with the care and treatment of machinery are supplementary to the understanding of the six simple machines. The treatment of light includes all the common optical instruments, and under magnetism and electricity, wiring, dry batteries, electric meters, lamps, and fuses in common use are fully described.

The author has endeavoured to overcome difficulties in understanding the presentation of facts, and the consequent lack of interest, by simplicity of statement, by avoiding mathematical formulæ, by explaining all technical terms used, and by illustrating with clear sectional diagrams the working of apparatus and appliances in everyday use.

The author's grateful acknowledgments are due to Mr. W. T. Clough, A.R.C.Sc., and to Dr. A. E.

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E. D. G.

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