

**THROUGH LOCOMOTIVE
WORKS: BEING
ADVICE TO YOUNG
MECHANICAL ENGINEERS**

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Through Locomotive Works: Being Advice to Young Mechanical Engineers by Randal W. McDonnell

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RANDAL W. MCDONNELL

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THROUGH
LOCOMOTIVE WORKS

*BEING ADVICE
TO YOUNG MECHANICAL ENGINEERS.*

BY
RANDAL W. McDONNELL.
AUTHOR OF
"An Elementary Treatise on the Steam Engine."

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LONDON: SIMPKIN, MARSHALL, HAMILTON, KENT & Co.
1894.

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TO
R. E. L. M.

AND

W. N. S.

—
(1888-90)

P R E F A C E .

*T*HIS book, which is the production of one who has gone through the trials and pleasures of work-shop experience, has been written in the hope of assisting those who intend taking up Locomotive Engineering as their profession, as well as some of the many young mechanics who are toiling in Locomotive works throughout the Kingdom.

R. W. McDONNELL.

SPRINGMOUNT,

GREYSTONES,

CO. WICKLOW.

September, 1874.

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