THE PRACTICE AND SCIENCE
OF
MINING ENGINEERING:

A MANUAL
ADAPTED FOR THE USE OF
MINE OWNERS, MINING ENGINEERS, COLLIER MANAGERS,
MINE FOREMEN, MINERAL SURVEYORS, MINING STUDENTS,
AND PRACTICAL MINERS,

BY
W. FAIRLEY, Ph.D., F.G.S.,
MINING ENGINEER,

Certificated Colliery Manager under the Coal Mines Regulation Act, 1872,
Great Britain; Author of "The Colliery Manager's Calculator," "The
Colliery Manager's Catechism," "Practical Observations on the South
Wales Coal Field," "Notes on a Visit to Saxony," "Rambles in North-
amptonshire," "Geologische Bemerkungen über Dean Forest und Umgegend,"

Published by
JAMES FAIRLEY, SHAFTO HOUSE, CHESTER-LE-STREET, COUNTY DURHAM.

Newcastle-on-Tyne:
TYNE PRINTING WORKS CO., 22 TO 25, SIDE.

(All rights reserved.)