

THE

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OF SOUTH AFRICA

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INTRODUCTION

The monthly Bulletin (recently renamed the Journal) issued by the Mine Ventilation Society over the past ten years has contained a great deal of useful information covering many aspects of mine ventilation and allied subjects. To provide an easy source of reference to this information the Council of the Society recently agreed to publish this Consolidated Index.

The principal portion consists of a subject Index, in which all published papers have been classified under a number of suitable headings, and an Author Index. This is followed by an Abstract Index, in which are listed the pages on which abstracts relating to each subject have been published—to conserve space the titles of the abstracts are not given. Finally there is an index to "Examination Questions and Answers" and an Index to Book Reviews. It was decided not to include in the Consolidated Index items such as minutes of meetings and purely administrative matters.

After each section in the Subject Index a small space has been left so that those who wish to do so can keep this Index up to date by adding references to further papers on the subject as they are published in the Journal.

Readers are requested to notify the Secretaries of any errors or omissions.

This Consolidated Index was suggested by Mr. V. O. Steed, who undertook much of the preliminary work in preparing it. Mrs. J. Ward completed the indexing and read the proofs. To these two and to the small Sub-Committee who supervised the work, the Society is most grateful.

MINE VENTILATION SOCIETY,
P.O. Box 9426, JOHANNESBURG.

D. G. BEADLE,
President 1958/59

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Delay in the publication of papers is often due to the fact that they are poorly prepared and require considerable editing. To assist the Editor and to expedite publication, authors are requested to comply with the following—

1. Articles must be on some subject of interest to ventilation officials. Articles may be of any reasonable length—there is as great a need for short notes, describing some interesting point, as there is for full papers. Articles should be written in a clear, simple style and be kept brief and to the point.
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 - (f) Results obtained and deductions therefrom.
 - (g) Conclusion and/or inferences drawn.
 - (h) Acknowledgements (if any).
 - (i) References (if any).
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Although strictly speaking it is not good practice to use abbreviations in the text of an article, this practice is permissible in the case of such common abbreviations as B.Th.U., c.f.m., f.p.m., p.p.c.c., r.p.m. etc. In case of doubt however the full word should normally be used in the text.

Absolute	Abs	Inch	in
Air horse power	Air h.p.	Inches of water gauge	in. w.g.
Alternating current	A.C.	Inches of mercury	in. Hg.
Ampere	amp	Kilovolt-ampere	kVA
Brake horse power	b.h.p.	Kilowatt	kW
British thermal unit	B.Th.U.	Kilowatt-hour	kWh
Cubic foot or feet	cu. ft.	Micron	μ
Cubic feet per minute	c.f.m.	Miles per hour	m.p.h.
Decibel	db	Minute	min
Degree Centigrade	$^{\circ}\text{C}$	Ounce	oz
Degree Fahrenheit	$^{\circ}\text{F}$	Particles per cubic centimetre	p.p.c.c.
Degree Absolute (on Fahrenheit Scale)	$^{\circ}\text{F Abs.}$	Pennyweight	dwt
Degree Kelvin	$^{\circ}\text{K}$	Pound	lb
Diameter	dia	Pound per square inch	lb./sq. in.
Direct Current	D.C.	Pound per square foot	lb./sq. ft.
Electro-motive force	e.m.f.	Revolutions per minute	r.p.m.
Feet per minute	f.p.m.	Second	sec
Feet per second	f.p.s.	Specific gravity	sp. gr.
Foot	ft	Specific heat	sp. ht.
Foot-pound	ft. lb.	Square foot	sq. ft.
Gallon	gal	Square inch	sq. in.
Gallons per hour	g.p.h.	Volt	V
Gallons per minute	g.p.m.	Water gauge	w.g.
Horse power	h.p.	Watt	W
Hour	hr		

SYMBOLS FOR USE IN EQUATIONS

A	area	Q	quantity (in air flow)
B	barometric pressure	r	radius
C	perimeter (or circumference)	R	gas constant
d	diameter	R	specific resistance (in air flow)
e'	maximum or saturation vapour pressure	Re	Reynold's number
e	actual vapour pressure	S	rubbing surface
f	coefficient of heat transfer	T	Absolute temperature
F	force	t	temperature in $^{\circ}\text{F}$
g	acceleration due to gravity	t.d.	temperature ($^{\circ}\text{F}$) dry bulb
h	height, head	t.w.	temperature ($^{\circ}\text{F}$) wet bulb
i	electric current	t	time
J	mechanical equivalent of heat	U	tangential velocity (fans)
K	coefficient of friction	V	velocity
kW	kilowatts	V	volume (in gas laws)
L	length	V	volts
m	mass	w	density
N	number	W	mass flow
p	pressure difference	x,y,z	unknown
P	pressure		

Some letters have more than one meaning. The meaning will usually be clear from the equation—in cases of doubt, the symbol should be clearly defined.