INDEX.

Vol. IV.

1888-1889.

Α

Account of Receipts and Expenditure	XXXV
Act of Incorporation	vii
Address, Presidential	1
Ahrbecker, H. V., Elected Editor	xiv
Annual Meeting	xxxi
Annual Report	xxxi
Air Compressed	183
Air Compressed, M. Popp's System	187
Air, Compressed, Remarks on, W. D. Cruickshank	208
Air, Compressed, Remarks on, by G. Fischer	202
Air, Compressed, Remarks on, J. Fitzmaurice	207
Air, Compressed, Remarks on, G. Houghton	206
Air, Compressed, Remarks on, — Swinburne -	204
Air, Compressed, Transmission of Power by, N. Selfe on -	181
Air Compressors, Duty of	189
Air Engine, Efficiency of -	193
Air Power, Cost of	197
Analysis of Pyrites, from Ravenswood (2)	178
Analysis of Wheat	165
Appendix to By laws	xxi
Appointment of Auditors	xlviii
Ash, Mountain	3-122
Auldjo, L. C., Remarks on Botany Pumping Engines -	92
Australian Timbers, Extract from Report of Victorian Carriage Board	128
Australian Timbers, Paper on, by J. H. Maiden	106
Australian Timbers, Paper on, by Professor W. H. Warren	126
Australian Timbers, Remarks on, by J. B. Henson	136

INDEX.

Australian Timbers, Remarks on, by Trevor Jones		•	137
Australian Timbers, Remarks on, by W. G. Wilson -	-		- 137
Australian Timbers, Remarks on, by W. H. Wells		-	138
Australian Timbers, Remarks on, by H. Kidd -			- 139
Australian Timbers, Remarks on, by W. D. Cruickshank		-	139
Australian Timbers, Remarks on, by W. Shellshear -	-		- 140
Australian Timbers, Remarks on, by A. D. Nelson -		-	141
Australian Timbers, Suitability for Railway Purposes	-		- 111
Australian Timbers, Tables of Transverse Strength of -		-	136
В			
Balance-sheet			xxxvi
Beech, White		_	124
Bennett, W. C., The late, Memoir of	_		- 216
Birmingham Compressed Air Company		-	187
Black-butt -	-		118
Blackwell, L. B., Elected Member			xlvi
Black-wood			111-115
Box -		_	116
Box, Yellow	-		- 117
Brakes, Continuous		_	65
Briggs, S., Remarks on "Australian Timbers"	-		- 159
Briggs, S., Remarks on "Sanitary Improvements"		-	102
C			
Cedar, Red			
Central Lighting Station, Birmingham	-		- 113 203
Central Lighting Station, Circular Quay		-	- 207
Chlorination, Dr. J. Storer on	-		~ 0
Cold Storage Trucks	-27	-	177
Comparison between Air and Hydraulic Power	•	_	199
Competitive Designs	1	-	- 10
Compressed Air, M. Popp's System	•	_	187
Compressed Air Power Co's., Paper on, by Norman Selfe		-	- 181
Compressed Air Tramcar at Highbury		_	206
Contents			- iii
Continuous Brakes		_	65
Cost of Air Engine Power	_		2 197
Cost of Gas Engine Power		_	196
Cost of Hydraulic Power			- 195
Cost of Steam Engine Power		_	196
			- 9-

INDEX.			223
Council, List of Members of		xx	xvii
Cowdery, C., Remarks on Western Suburbs Sewerage			33
Cox, A. A., elected Student			46
Cracknell, E. W., Paper on Sanitary Improvements		2:	94
Cruickshank, W. D., Remarks on Western Suburbs Sewerage		-	32
Cruickshank, W. D., Remarks on Modern Railway Practice	-		69
Cruickshank, W. D., Remarks on Sanitary Improvements -			101
Cruickshank, W. D., Remarks on Don's Smoke Consumer	-		155
Cruickshank, W. D., Remarks on Australian Timbers		-	139
Cruickshank, W. D., Remarks on Flour Mill Machinery -			172
Cruickshank, W. D., Remarks on Compressed Air		-	208
Curves, Transition on Railways	-		55
•			
D			
Davies, H., Remarks on Flour Mill Machinery		-	172
Designs, Competitive	-		10
Destructor, Cost of		-	103
Dickinson, H. E., Remarks on Flour Mill Machinery -	-		172
Donations to Library		-	xxx
Don's Smoke Consumer, Paper on, by G. A. Key	-		143
Don's Smoke Consumer, Report on -		-	145
Don's Smoke Consumer, Remarks on, by W. D. Cruickshank	-		155
Don's Smoke Consumer, Remarks on, by W. G. Wilson -		-	159
Don's Smoke Consumer, Remarks on, by S. Briggs -	-		159
Don's Smoke Consumer, Remarks on, by R. Sands		-	159
Don's Smoke Consumer, Remarks on, by R. Pollock -	-		160
Don's Smoke Consumer, Remarks on by N. Selfe -		-	160
Don's Smoke Consumer, Remarks on, by Dr. Storer	-		160
Don's Smoke Consumer, Remarks on, by Trevor Jones		-	160
Don's Smoke Consumer, Remarks on, by G. Fischer	-		160
Don's Smoke Consumer, Remarks on, by A. D. Nelson		-	160
Drake, F. M., Elected Member	-		хl
Duty of Pumps and Consumption of Fuel N. S. Water Supply		-	85

Duty of Pumps and Consumption of Fuel N. S. Water Supply

E

Education, Technical 3

Efficiency of Air Engines—Lowcock's 193

Election of Librarian and Secretary xxxix

Electric Light at Circular Quay 207

Electric Traction 182

Estimates of N	ew	w	ater	Su	pply		-		-		-		-		٠, ٠,	77
Excursion to V				-			altu	m (o.	-		-		-		xlviii
Extraction of C						_				n					4	174
Extracts of Mr				-			•	-		-		-		-		24
		•			•		_									
							F									
Flour Mill Mad	hir	ery	, Pa	per	on,	by	A. I	D. N	lelso	n	-		-		-	162
Flour Mill Ma	chir	ery	, R	ema	rks	on,	by '	W.	D. C	rui	cksh	ank		-		172
Flour Mill Ma	chir	ery	, R	ema	rks	on,	by	Н.	Davi	ies	-		-		-	172
Flour Mill Ma		-	,				-					ı -		-		172
Flour Mill Ma	chi	nery	y, R	ema	rks	on,	by .	J. B	. Не	enso	n -		-		-	172
Flour Mill Ma	chir	ıery	, R	ema	rks	on,	by '	Tre	vor]	one	s	7.0		-		172
Flour Mill Ma	chiı	nery	, R	ema	rks	on,	by]	J. J.	Sto	ne	-		-		-	172
Flow of Sewag	e	-		-		-		-		-		-		-		21
Flow-sheet of	Flo	ur I	Mac	hine	ery		-		-		-		-		-	171
Fischer, G., Re	ma	rks	on	Dor	ı's S	Smo	ke (Cons	sume	er-		-		-		160
Fischer, G., Re	ma	rks	on	San	itar	y Ir	npro	ven	nent	S	-		-		-	101
Fischer, G., Re	ema	ırks	on	Tra	nsn	nissi	ion (of P	owe	r by	Co	mpr	esse	d A	ir	202
Fischer, G., Re	ma	rks	on	We	ster	n S	ubur	bs S	Sewe	erag	е -		-		-	32
Fitzmaurice, J.	, R	em	arks	on	Sar	nitar	ry Ir	npr	oven	nent	S	-		-		104
Fitzmaurice, J.	, R	ema	arks	on '	Γrai	nsm	issio	n of	Pov	ver	by C	om	press	ed	Air	207
Flying Machin	e, I)esc	cript	ion	of,	by	L. H	Iarg	rave	-		-		-		212
Fyfe, J., the la	e,	Меi	moir	of	-,		-		-		-		-		-	213
							G									
Car Natural :	_ ^	10	337				<u> </u>									
Gas, Natural, i					c	-		-		-		-		-	·	6
General Meetin	_						•		-		-		-		XXXI	, xlix
Gold Extraction Grant, W., the			•			-		-		-		-		-		174
Gum, Apple-so			wen	1011	01		•		-		-		-		-	219
,		eu		•		-		-	í	-		-		-		123
Gum, Bastard	•		-		•		•		-		-		-		-	116
Gum, Blue -		-		-		Ī		•		-		-		-		120
Gum, Cider	-		-		•		-		-		-		-		-	116
Gum, Flooded		-		•		-		-		-				-		120
Gum, Grey	-		-		-		-		-		-		-		-	120
Gum, Manna		-		-		-		-		-		-		-		123
Gum, Red	•		•		-		-		-		-		-		-	116
Gum, Silky		-		-		-		-		-		-		-		121
Gum, Spotted	-		-		-		-		-		-		-		-	116
Gum, Sugar		-		-		-		•		-		-		•		116
Gum, Swamp	-		-		-		-		-		-		7.		-	116

INDEX.	225

Ĥ.

	xxi
Hargrave, L., Description of Air Motor	212
Harris, G. A., elected Member x	xxix
Hawkesbury-Nepean Irrigation	70
Hawkesbury, Rainfall of District	73
	72
10%	79
Henson, J. B., Paper on "Western Suburbs Sewerage"	12
Henson, J. B., Remarks on Australian Timbers	137
Henson, J. B., Remarks on Flour-milling Machinery -	172
Henson, J. B., Remarks on Sanitary Improvements	104
Houghton, G., Remarks on Compressed Air	207
Hutchinson, T. W., elected Member	xliv
Hydraulic Injection	206
Hydraulic Power Co., London	195
Hydraulic Power Co., Melbourne	205
Hydraulic Power Transmission	183
Hydraulic Power Transmission, Cost of	
For de cas W.B. Crelebank &	-
Like the south of the control of the	
Injector, Hydraulic	206
Interlocking and Block System	бо
Iron-bark, Broad-leaved	115
Iron-bark, Grey	115
Iron-bark, Narrow-leaved	121
Iron-bark, Red	121
Iron-bark, She	118
Iron-bark, White	115
Irrigation	5
₹ ¹	1,1
3	
Jones, Trevor, Remarks on Western Suburbs Sewerage	28
Jones, Trevor, Remarks on Australian Timbers	137
Jones, Trevor, Remarks on Don's Smoke Consumer	160
Jones, Trevor, Remarks on Flour Mill Machinery	172
101	
kes vi	
Key, G. A., Don's Smoke Consumer, Paper on -	143
Kidd, H., Remarks on Australian Timbers	139
Kino	115
0	

L

Library, Donations to	XXX
List of Illustrations	229
List of Members, Associates, and Students	
rx.lx x	
M seiters i et general en de la company de l	
Mahogany, Bastard	114
Mahogany, Forest	
	119
Mahogany, Swamp	120
Maiden, J. H., Paper on Australian Timbers and Australian Education and Australian Timbers	106
Melbourne Hydraulic Power Co. 14 partition and it with a partition of the second of th	205
Mess-Mate 1 1 Manageon of the Strength of Strength and Language	113
Mestayer, R. L., elected Member A. I. and a good of the action of the stayer	xxix
Mestayer, R. L., Remarks on Sanitary Improvements	103
Millstones	168
Mining in N.S.W.	
Minutes of Proceedings	xxxi
Modern Tendency of Railway Practice, Paper on, by W. Shellshear -	54
Modern Tendency of Railway Practice, Remarks on, by W. H. Wells	68
Modern Tendency of Railway Practice, Remarks on, by W. D. Cruickshan	k 69
Modern Tendency of Railway Practice, Remarks on, by A. D. Nelson	69
Morell, G. A., The late, Memoir of	218
Mortlake Gas Works, Hydraulic Power at	206
N same shad	-1107
Natural Gas in N.S.W.	101
	163
	141
	160
	69
Nelson, A. D., Remarks on Sanitary Improvements	104
	xlvi
	39
	39
O	
Operation of Power Companies and Power Transmission, by N. Selfe	181
Operation of Power Companies, Remarks on, by G. Fischer	202
Operation of Power Companies, Remarks on, by W. D. Cruickshank	208
Operation of Power Companies, Remarks on, by - Swinburne -	204
Operation of Power Companies, Remarks on, by G. Houghton	207
Operation of Power Companies, Remarks on, by J. Fitzmaurice -	207

INDEX.	22

P

Pan System	· · · · · · ·	*1759823	W didney	- 96
Papers, List of	-	# 85 H	27 - P. 11 (1) - R	xxxii
Peppermint	september	r 💉 🗡	₩ # M - W.	- 123
Peppermint, Red	-1 .7	× / **	. wil.74	123
Permanent Way		in the specific	· 21 -7 .	- 56
Pine, Black	-		a durit e	124
Pine, Colonial	-	- ,- ,- ,-	# 100 m	- 112
Pine, Cypress	- 1			124
Pine, Moreton Bay		¥		- 112
Pine, White -	a	e or comme	erica, in ia.	124
Pollock, R., Remarks on Don's	Smoke C	onsumer	- ' - '	- 160
Pollock, R., Remarks on Extrac	ting Gold	from Pyrit	es -	180
Poole, W. H., Remarks on Wes	tern Subi	ırbs Sewera	ge -	- 44
Poudrette	1.	el signed		95
Power Systems in use	S	10.00 m		- 182
Presidential Address -	-		•	I
Pumping Machinery, Crown stre	et -		-	- 82
Pumping Machinery, North Sho	re-	e de la française		82
Pumps, Duty of, North Shore W				- 85-88
Pumps, "Worthington" -				87
	В			
	R			
Rails, W. Shellshear on -		-		- 57
Rainfall, Hawkesbury District			-	- 73
Railway Curves, W. Shellshear	on	-	- 2, , , -	55
Report, Annual	. *,	-		- xxxi
Rolling Stock, W. Shellshear on	- '/ '	-	- , -	61
	S			
	•			
Sands, R., Remarks on Don's St			-	- 159
Selfe, Norman, Remarks on Don				160
Selfe, Norman, Remarks on Hav	-	-	-	- 70
Selfe, Norman, Paper on Operat	ion of Pov	ver Compan	ies -	181
Sewage, Flow of		•		- 21
Sewerage System for Western Su				
Sewerage System for Western Su			•	
Sewerage System for Western Su			-	_
Sewerage System for Western	Suburbs,	Remarks	on, by W.	D.
0	-			32
Sewerage System for Western St	iburbs. Re	emarks on.	by C. Cowde	erv 33

Sewerage System for Western Suburbs, Remarks on, by Dr. Ash- burton Thompson - 36
Sewerage System for Western Suburbs, Remarks on, by W. Shellshear
Sewerage System for Western Suburbs, Remarks on, by W. H. Poole 44
Shellshear, W., Remarks on Sanitary Improvements Indiana 103
Shellshear, W., Remarks on Australian Timbers
Shellshear, W., Tendency of Modern Railway Practice, Paper on, by
Silk-dressing Machine 1664 160
Sinclair, R., elected Member Interior xIv
Smut Machine
Storer, Dr. J., Paper on Extraction of Gold from Pyrites - add additional 174
Storer, Dr. J., Remarks on Don's Smoke Consumer - additional 4760
Stringy-bark - Remusiks on Don's amoke Censum -
Stringy-bark, Almond Leaves and Mark process and the second S. 200118
Suitability of N.S.W. Timber for Railway Purposes
Sutherland, Hon. John, the late, Memoir of 217
Swinburne, —, Remarks on Operation of Power Companies
Presidential Address
Pamonig Machanery Grown may T
Tables of Transverse Strength of Australian Timbers
Tallow Wood dog - wastanan Thinbers - and the grade grad
Technical Education and add of the sequence
Traction, Wire Rope 182
Trucks for Cold Storage
Turpentine Tree - 118-125
Report, And
Rolling Sea
Warren, Prof. W. H., Paper on Transverse Strength of Australian
Timbers 126
Water Commission, 1877, Extracts from Report of
Water Supply for Sydney, Estimates of New
Wells, W. H., Remarks on Modern Railway Practice - 68
Wells, W. H., Remarks on Australian Timbers
Wheat, Analysis of 105
Wheat Brush 167
Wilson, W. G., Remarks on Australian Timbers 137
Wilson, W. G., Remarks on Don's Smoke Consumer 159
Wilson, W. G., Remarks on Extracting Gold from Pyrites - 180
Wire Rope Traction 182
_
Worthington Pumps