GENERAL ELECTRIC REVIEW

INDEX TO VOLUME XIII

January, 1910-December, 1910

GENERAL ELECTRIC COMPANY

Schenectady, N. Y.

INDEX TO VOLUME XIII

•	Page		Page
A.I.B.B., Standardisation Rules of the. by Dr. C. P.		Gas Power, Producer, by C. L. Stranb	312
Steinmets	34	Gears for Motor-Driven Tools, with Special Reference to	
Agriculture, Electrified. The Promise of, by Edward P.	546	Cambric Pinions, by John Riddell	284
Edwards		General Electric Company, Annual Report of the	286
Arc Lamp, The Vertical Carbon Flame, by G. N. Chamber-		General Blactric Repair Shop and Warehouse, Chicago,	
lin	430	Ill., by John Liston	297
Automobiles, Electric, Motive Equipment for, by H. S.		Generators, Rosenberg, by J. L. Hall	39
Baldwin	232	Generators and Peeder Systems. Voltage Control of,	
Baltimore & Ohio Railroad Company, Electric Locomotives	533	by F. W. Shackelford	424
for the, by B. T. Dodd		Great Northern Railway Company, The Electrification of	349
Beechnut Packing Company, by W. D. Bearce	550	the Cascade Tunnel of the, by W. I. Slichter	248
Bettendorf Asle Company, Davenport, Iowa, Installation	354	Hydro-Electrical Development in Southern Asia, The First Important, by H. P. Gibbs	
of Low Pressure Turbine, by P. Bendizen	210	Hyperbolic Punctions and Their Application to Trans-	9
Biowers, Exhaust Pan, for Residence Furnaces, by R. E.	2.0	mission Line Problems, by W. E. Miller177, 220	264
Barker	43	Induction Motor, The Single-Phase, by Prof. J. H. More-	
Boat Haul and Ferry, Motor-Operated, by W. D. Bearce	479	croft and M. Arendt197	7, 245
Book Bindery, Motor Drive in a, by F. J. Chisolm	421	Induction Motor Construction, Some Points of Modern	
BOOK REVIEWS.		Practice in, by E. L. Parrar	91
The Theory of Electric Cables and Networks, by		Insulation Against Electrical Impulse Forces, by C. P.	
Alexander Russel, A.M., D.S.C	144	Steinmets	470
Theory and Calculation of Transient Electrical		John N. Robins Co., Erie Basin, Brooklyn, The Electrica!	
Phenomena and Oscillation, by Charles Proteus		Equipment of the, by G. S. Rose	513
Steinmetz	239	Lamps, Incandescent Electric, The Three-Voltage Rating	
The Copper Handbook, Vol. 1X	384	of, by F. W. Willcox	446
Books Received	336 516	Light, Some Chemistry of, by W. R. Whitney	101
Catenary Line Material, by R. L. Hoffman.,	143	LIGHTING. Notes on Electric Lighting, by Caryl D. Haskins 453, 82	0.888
Cars. Pay-As-You-Enter		Store Lighting, by P. L. Healy	137
Percentage of, by B. A. Barnes	141	Locomotives, Electric, for the Baltimore and Ohio Railroad	
Cauvery Hydro-Electrical Development, India, A Financial		Company, by S. T. Dodd	533
Statement of the	84	Luminescence, by Dr. Charles P. Steinmets	379
Central Station, Smail, The Distribution of Electric Energy		Meter, A New Type of, for Measuring the Flow of Steam	
from a, by C. R. Croninger	307	and Other Pluids, by A. R. Dodge	134
Circuit Breaker Installation, A Large Alternating Current		Meter Installation, An Interesting, by B. E. Semple	383
by D. S. Morgas		Mines of the Bavis Coal and Coke Company, Electricity	
Coal Colliery, The Westport-Stockton Company's, West-		in the, by R. Neil Williams	268
port, New Zealand, by W. A. Reece		Molybdenum (See Tungsten.)	
Color Testing, A New Method of, by R. B. Hussey		MOTORS.	
Comets, Some Consideration as to the Nature of, and Their		Determination of Resistance Steps for the Acceleration	
Probable Relation to the Sun, by Prof. Elihu		of Series Motors, by E. R. Carichoff, M.A., and Harold Pender, Ph. D	331
Thomson	539	Sewing Machine Motors—Drawn Shell Type. by	
Compensators, Starting, by E. F. Gehrkens	130	R. B. Barker	93
CONTROL.	***	Single-Phase Induction Motor, The, by Prof. J. 11.	
Automatic Load Regulation by Means of Water-Box		Morecroft and M. Arendt	
Control, by Harold V. Green		Small Buffing and Grinding Motors-Drawn Shell	
Voltage Control of Generators and Feeder Systems.		Type, by R. E. Barker	283
by F. W. Shackelford	434	Bome Notes on the Behavior of D.C. Machines, by	
Conveyors (See Elevators).		P. Q. R	456
Davis Coal and Coke Company, Electricity in the Mines		Some Points of Modern Practice in Induction Mo-	
of the, by R. Netl Williams	268	tor Construction, by E. L. Parrer	91
Diamond Jewels, Life of, by P. G. Vaughen		MOTOR-DRIVE.	830
Distribution, Underground Electrical, by W. B. II eltine		Beechnut Packing Company, by W. D. Bearce	
Distribution of Electric Energy from a Small Central		Development of Electrical Drive in the Mills of the Proximity Manufacturing Company, by John P.	
Station, The, by C. R. Croninger		ludge	
Drying Outfits, Oil and Transformer, by E. F. Gehrkens Edison Medal, Presentation of		Electric Drive in Pulp and Paper Mills, by John	
Electric Current in Rain and Snow Storms, by J. B. Taylor		Liston	437
Electric Light Plant, The, at Mukden, Manchuria		Electricity on the Parm, by John Liston	106
Electrical Measurements, Appliances for, by C. D. Haskins 3		High Speed Motors for Woodworking Machinery,	
Electricity, Atmospheric, by Prof. Elihu Thomson	53	by John Liston	251
Elevators and Conveyers, Electrically-Driven Portable	303	Motor Drive in a Book Bindery, by P. J. Chisolm	431
Farm, Electricity on the. by John Liston	160	Motor-Operated Billet Mill, A, by B, E. Semple	210
Feeder Systems (See Control.)		Motor-Operated Rail Mill A, by B. E. Semple	. 83
Fire-Damp Proof Apparatus, by William Baum	402	Motor-Operated Boat Haul and Ferry, by W. D.	
Furnace Economy, by F. W. Caldwell	. 238	Bearca	479
Gases, Furnace, Regulation of the Percentage of Carbon	3	Power in the Silk Mill, by Andrew Kidd, Jr.	341
Dioxide in. by B. A. Bernea		Union Bag & Paper Company, Hudson Palls, N. Y.	569
Gas-Electric Motor Car, Self Contained Type, by A. W	. 30	by John Liston	428

		<u>-</u>	
York, New Haven and Hartford Railroad, Readvill	Page	MR 4 MRROR MRR 4	Page
Repair Shop of the, by A. I. Totten	. 367	TRANSFORMERS. Apparent Change of Ratio of Transformation in	
Notes 432, 480, 53	7, 576	Three-Phase Transformers, by G. Paccioli	235
OBITUARY. John Trumbull Marshall		The Elements of Transformer Construction, by W. A.	
H. H. Beddy	96	Hall181	. 212
James J. Mahony		High Voltage Power Transformers of Large Size,	
Clinton Charles Burr	384	by E. R. Pearson	22 335
Theodore P. Bailey	450	Transformation of the Energy in Coal into Electrical	#40
Oil and Transformer Drying Outfits, by E. P. Gehrkens.		Energy, Notes on the Magnitude of the Losses	
Oscillograph, The, by L. T. Robinson	485	Incidental to the, by Dr. E. J. Berg	293
Pinions (See Gears.)		TRANSMISSION.	
Power Pactor, Effect of Rotary Condensers on, by John	,	Catenary Line Material, by R. L. Hoffman	516
Liston	67	Transmission Line Problems, by W. E. Miller	
Producer Gas Power, by C. L. Straub		177, 220, 264,	. 326
Protective Devices, The Development of, for High Tension		Transmission Line Calculations, by Milton W. Franklin	
Circuits by P. G. Langley Proximity Manufacturing Company, Development of	333	43. 72.	139
Electrical Drive in the Mills of, by John P.		Transmission Line, Key for the Complete Calculation	
Judge	472	of a, by Milton W. Franklin	186
Pulp and Paper Mills, Electric Drive in, by John Liston	437	Transmission System of the Southern Power Company.	10
Rall Mill. A Motor-Operated, by B. E. Semple		by John Liston	24
Railroad, the 1200 Volt, A Study of Its Value for Inter-		Tungsten, Ductile, and Molybdenum, by Colin G. Fink, Ph. D	223
urban Railways, by Chas. E. Eveleth		TURBINES.	
Potter		The Relation of the Steam Turbine to Modern Central	
Raliway, 1200 Volt D.C., Washington, Baltimore &		Station Practice, by G. R. Parker	63
Annapolis, by John R. Hewett		Installation of Low Pressure Turbine, Bettendorf Asle	500
Reactive Power, Curves of, by V. Karapetoff	477	Company, Davenport, Iowa, by P. Bendizen	554
Regalators, Power Pactor, by H. A. Laycock	14	The Steam Turbine, by Ernst J. Berg399.	466
Repair Shop, Readville, of the N. Y., N. H. & H. R.R., by A. I. Totten		The Turbine (Poem), by Harriet Monroe	525
Repair Shop and Warehouse, General Electric, Chicago,		Water Rate and Coal Consumption of Turbines, by	
Ill., by John Liston		Dr. E. J. Berg. Union Bag and Paper Company, The, Hudson Palls, N. Y.,	376
Rotary Condensers, The Effect of, on Power Pactor, by			509
John Liston	67	Ventilating Outfits, Small, or Exhaust Fan Motors, by	
Schenectedy Power Company, The Johnsonville Hydro-		R. E. Barker	310
Electric Development of the, by John Liston Series Motors, Determination of Resistance Steps for the	118	Washington, Baltimore & Annapolis Railway, 1200 Volt	
Acceleration of, by E. R. Carichoff, M. A., and		Direct Current, by John R. Hewett	492
Harold Pender, Ph. D	331	A Financial Statement of the Cauvery Hydro-Electrical	
Sewing Machine Motors-Drawn Shell Type, by R. E.		Development, India	84
Barker.	92	The First Important Hydro-Electrical Development	
Silk Mill, Power in the, by Andrew Kidd, Jr Southern Power Company, Transmission System of the,	341	in Southern Asia, by H. P. Gibbs	5
by John Liston	24	Johnsonville Hydro-Electrical Development of the Schenectady Power Company, by John Liston	
Switchboard Specialists, Pirst Annual Meeting of,	526	Westport-Stockton Coal Company's Colliery, The, Westport,	118
Testing, Commercial Electrical, by E. F. Collins			149
17, 76, 109, 189, 204, 289, 319, 387, 409, 460, 303	, 563	Woodworking Machinery, Iligh Speed Motors for, by	
Tosster, Electric, for Hotels and Restaurants	310	John Liston	251
_			
INDEX	TO	AUTHORS	
=	I O		
Arendt, M.		Berg, Ernst, J.	
The Single-Phase Induction Motor	, 245	Notes on the Magnitude of the Losses Incidental to the Transformation of the Energy in Coal into Electrical	
Motive Equipment for Electric Automobiles	232		243
Barker, R. E.		The Steam Turbine	
Small Ventilating Outfits or Exhaust Pan Motors	310	Water Rate and Coal Consumption of Turbines 3	176
Exhaust Fan Blowers for Residence Furnaces	4.5	Burleigh, Chas, B.	
Sewing Machine Motor—Drawn Shell Type	92	The Curtis Turbine	100
Small Buffing and Grinding Motors—Drawn Shell Type Barnes, E. A.	282	Caldwell, P. W.	38
Regulation of the Percentage of Carbon Dioxide in		Furnace Economy 2 Carichoff, E. R., M.A.	-00
Furnace Gases	141	Determination of Resistance Steps for the Acceler-	
Baum, William		ation of Series Motors	31
Fire-Damp Proof Apparatus	402	Chamberlin, G. N.	
Bearde, W. D.	550		30
Beechnut Packing Company	479	Chisolm, F. J. Motor Drive in a Book Bindery	21
Bendizen, P,		Collins, E. P.	
Installation of Low Pressure Turbine, Bettendorf		Commercial Electrical Testing.	
Axle Co., Davenport, Ia	551	17, 70, 100, 159, 201, 239, 319, 357, 409, 460, 503, 5	63

	neph.		
2	Page		Page
Croninger, C. R.		High Speed Motors for Woodworking Machinery	251
The Distribution of Electric Energy from a Small Cen-	•	The Effect of Rotary Condensers on Power Pactor	67
tral Station	307	The Johnsonville Hydro-Electric Development of	
Dodd, S. T.		the Schenectady Power Co	118
Electric Locumotives for the Baltimore & Ohio		The Union Bag and Paper Company, Hudson Falls,	
Railroad Company	533	К. У	569
Dodge, A. R.		Transmission System of the Southern Power Company	24
A New Type of Meter for Measuring the Plow of		Miller, W. B.	
	184	Hyperbolic Punctions and Their Application to	
Edwards, E. P.		Transmission Line Problems177, 220, 264,	326
The Promise or Electrified Agriculture	546	Monroe, Harriet	
Eveleth, Charles E.		"The Turbine"	523
The 1200 Volt Railroad-A Study of its Value for		Morecroft, Prof. J. H.	
Interurban Railways	274	The Single-Phase Induction Motor	243
Paccioli. G.		Morgan, D. S.	
Apparent Change of Ratio of Transformation in		A Large Alternating Current Circuit Breaker Instal-	
	235	lation	324
Farrar, B. L.		P. Q. R.	
Some Points of Modern Practice in Induction Motor		Some Notes on the Behavior of D. C. Machines	436
Construction	91	Parker, G. R.	
Pink, Colin G.	••	The Relation of the Steam Turbine to Modern Central	
Ductile Tungsten and Molybdenum	323	Station Practice	62
	920	Pearson, E. R.	0.5
Prank, John J.	33.5	Iligh Voltage Power Transformers of Large Size	22
400,000 Volt Testing Transformer	333		22
Pranklin, M. W.		Pender, Harold	
Key for the Complete Calculation of a Transmission		Determination of Resistance Steps for the Acceleration	
Line	186	of Series Motors	231
Transmission Line Calculations	139	Potter, W. B.	
Gehrkens, E. F.		Economics of Railway Electrification	389
Oil and Transformer Drying Outfits	93	Reece, W. A.	
Starting Compensators	130	The Westport-Stockton Coal Company's Colliery,	
Gibbs, H. P.		Westport, New Zoaland	149
The First Important Hydro-Electrical Development		Riddell, John	
in Southern Asia	3	Gears for Motor-Driven Tools with Special Reference	
Green, Harold V.		to Cambrie Pinions	284
Automatic Load Regulation by Means of Water-Box		Robinson, L. T.	
Control	523	The Oscillograph	483
Hall, J. L.		Rose, G. S.	
Rosenberg Generators	39	The Electrical Equipment of the John N. Robins Co.,	
Hall, W. A.	٠,	Erie Basin, Brooklyn	513
The Elements of Transformer Construction181.	212	Semple, B. E.	
Haskins, C. D.		An Interesting Meter Installation	383
Appliances for Electrical Measurements360,	419	A Motor-Operated Billet Mill	210
Notes on Electric Lighting		A Motor-Operated Rail Mill	85
Hasultine, W. B.	Jou	Shackelford, F. W.	-
Underground Electrical Distribution	227	Voltage Control of Generators and Peeder Systems.	424
	231	Slichter, W. I.	***
Henly, F. L.			
Store Lighting	127	The Electrification of the Cascade Tunnel of the	349
Hewett, John R.		Great Northern Railway Company	319
	492	Steinmets, C. P.	470
Boffman, R. L.		Insulation Against Electrical Impulse Porces	379
/ Catenary Line Material	316	Luminescence	218
Hussey, R. B.		Standardisation Rules of the A.I.E.E	34
A New Method of Color Testing	419	Straub, C. L.	
Jones, A, W.		Producer Gas Power	312
Gas-Electric Motor Car-Self Contained Type	30	Taylor, J. B.	
Judge, John P.		Electric Current in Rain and Snow Storms	325
Development of Electrical Drive in the Mills of the		Thomson, Prof. Elihu	
Proximity Manufacturing Co., Greensboro, N. C.	473	Atmospheric Electricity	53
Karapetoff, V.		Some Consideration as to the Nature of Comets and	
Curves of Reactive Power	477	their Probable Relation to the Sun	304
Kidd, Andrew, Jr.		Totten, A. I.	
Power in the Silk Mill	341	Readville Repair Shop of the N. Y., N. H. & H.	
Langley, P. G.		R. R	367
The Development of Protective Devices for High		Vaughen, P. G.	
Tension Circuits	333	Life of Diamond Jewels	429
Layrock, H. A.		Whitney, W. R.	
Power Factor Regulators	14	Some Chemistry of Light	101
Lewis, W. W.	••	Willeon, P. W.	
Compensators.	539	The Three-Voltage Rating of Incandescent Electric	
Liston, John		Lamps	446
Electric Drive in Pulp and Paper Mills	437	Williams, R. Ned	
Electricity on the Farm	166	Electricity in the Mines of the Davis Coal and Coke	
General Electric Repair Shop and Warehouse, Chicago,		Company	268
commendation of the second sec			

