Creator	Michell, John Henry
Creator's Activity/Occupation	Academics - Mathematics

Biography:

John Henry Michell, mathematician, was born on 26 October 1863 at Maldon, Victoria. Educated at Wesley College and the University of Melbourne, he graduated B.A. in 1884. From 1884 until 1890 he studied the Mathematical Tripos at Cambridge and in 1890 was elected Fellow of Trinity College. From 1892 until 1923 he was Lecturer in Mixed Mathematics and from 1923 until retirement in 1928, Professor of Pure and Mixed Mathematics at the University of Melbourne. By 1900 he had published 23 articles, mainly relating to engineering problems and in 1902 he was made Fellow of the Royal Society for his research in Applied Mathematics, especially hydrodynamics and elasticity. In 1937, with M.H. Belz (later Professor of Statistics), he wrote The Elements of Mathematical Analysis, London, Macmillan & Co., 2 vol. He also wrote a number of original essays and lectures, many for the Mathematical Association of Victoria of which he was co-founder in 1906, and performed various experiments to test his deductions, From his retirement until his death in 1940, Michell was an Honorary Research Professor. His brother, A.G.M. Michell, was a distinguished engineer.

Reference Number	1963.0002
Collection/Series Title	PAPERS OF JOHN HENRY MICHELL
Date Range of Collection/Series	1881-1940
Size/Extent	4 boxes (0.48m)
Access Conditions	Access: Open

Scope and Content of Series

Notes taken as a student at the University of Melbourne, Upper Mathematics, 1881; Lectures in Mixed Mathematics I (taken from Sylvia Reilly's note books), II and III, Principles of Mathematics, Pure Mathematics I (all undated) and Pure Mathematics II honours, 1924; address on J. Clerk Maxwell' work and lecture on relativity, n.d.; published articles, 1890-1901 and some in ms. undated; notes and calculations "found on J.H.M.'s desk"; University of Cambridge Mathematical Tripos examination papers, 1884-1887.   Biographical items: article by brother A.G.M. Michell, reprinted from the Royal Society Obituary Notices, 1940; a list of Michell's publications with notes by D.K. Picken and T.M. Cherry, 1940; statement by Associate Professor Belz to the University of Melbourne Council on Michell's death, 4 March 1940.   T.M. Cherry, "Anthony George Maldon Michell 1870-1959", from The Collected Mathematical Works of J.H. and A.G.M. Michell (ed. Niedenfuhr and Radok). Groningen, Netherlands, pp.23-35.

Archival History

These records listed by Patrica Marcard in February 1964. Typescript list converted to item data by Christine Elias in October 2019.

Sources: Royal Society obituary. Collected Mathematical Works of J.H. and A.G. M. Michell (ed.Niedenfuhr and Radok), Netherlands [c. 1964].

This list created 24 December 2019

To request access to records on the list below via the University of Melbourne Archives Reading Room, quote the Unit/Box reference in full.

Unit/Box	Item number	Title	Date range	Description
1963.0002 Unit 1	1963.0002.00001	Notes taken as a student	1881	J H Michell, note book and examples, Upper Mathematics, Melbourne University, 1881. Previous Control Number: 1
1963.0002 Unit 1	1963.0002.00002	Lectures and addresses: Melbourne University lectures	Undated	Mixed Mathematics I, Honours, lecture notes taken from Miss Sylvia Reilly's note books. Previous Control Number: 2/1/1
1963.0002 Unit 1	1963.0002.00003	Lectures and addresses: Melbourne University lectures	1925	Mixed Mathematics II, Pass, 1925. Previous Control Number: 2/1/2
1963.0002 Unit 1	1963.0002.00004	Lectures and addresses: Melbourne University lectures	Undated	Mixed Mathematics III, Honours. Previous Control Number: 2/1/3
1963.0002 Unit 1	1963.0002.00005	Lectures and addresses: Melbourne University lectures	Undated	Principles of Mathematics, 3rd year course (2 envelopes). Previous Control Number: 2/1/4
1963.0002 Unit 2	1963.0002.00006	Lectures and addresses: Melbourne University lectures	Undated	Principles of Mathematics, 3rd year course (1 envelope). Previous Control Number: 2/1/4
1963.0002 Unit 2	1963.0002.00007	Lectures and addresses: Melbourne University lectures	Undated	Pure Mathematics I, Pass; note by Maurice H Belz - all matter included in Mathematical Analysis. Previous Control Number: 2/1/5
1963.0002 Unit 2	1963.0002.00008	Lectures and addresses: Melbourne University lectures	1924	Pure Mathematics II, Honours, 1924. Previous Control Number: 2/1/6
1963.0002 Unit 2	1963.0002.00009	Lectures and addresses: Other	Undated	Maxwell Centenary: notes, draft and text of address covering James Clerk Maxwell's work. Previous Control Number: 2/2/1
1963.0002 Unit 2	1963.0002.00010	Lectures and addresses: Other	Undated	Lecture on Relativity. Previous Control Number: 2/2/2

1963.0002 Unit 2	1963.0002.00011	Published articles	1890	On the theory of stream lines, from Philosophical Transactions of the Royal Society of London, 1890. Previous Control Number: 3/1
1963.0002 Unit 2	1963.0002.00012	Published articles	1892	On the bulging of a flat plate, paper for Australasian Association for the Advancement of Science, January 1892. Also contains extract from Report of Australasian Association for the Advancement of Science, Section A, 1892. Previous Control Number: 3/2
1963.0002 Unit 2	1963.0002.00013	Published articles	1898	Wave resistance of a ship, from Philosophical Magazine, January 1898. Previous Control Number: 3/3
1963.0002 Unit 2	1963.0002.00014	Published articles	1899	Direct determination of stress in an elastic solid; application of plates, from Proceedings of London Mathematical Society, April 1899. Previous Control Number: 3/4
1963.0002 Unit 2	1963.0002.00015	Published articles	1899	Stress in a rotating lamina, from Proceedings of London Mathematical Society, April 1899. Previous Control Number: 3/5
1963.0002 Unit 2	1963.0002.00016	Published articles	1899	Uniform torsion and flexure of incomplete tores, with application to helical springs, from Proceedings of London Mathematical Society, April 1899. Previous Control Number: 3/6
1963.0002 Unit 2	1963.0002.00017	Published articles	1899	Transmission of stress across a plane of discontinuity in an isotropic elastic solid, and the potential solutions for a plane boundary, from Proceedings of London Mathematical Society, June 1899. Previous Control Number: 3/7
1963.0002 Unit 2	1963.0002.00018	Published articles	1900	Elementary distribution of plane stress, from Proceedings of London Mathematical Society, January 1900. Previous Control Number: 3/8
1963.0002 Unit 2	1963.0002.00019	Published articles	1900	Some elementary distributions of stress in three dimensions, from Proceedings of London Mathematical Society, February 1900. Previous Control Number: 3/9
1963.0002 Unit 2	1963.0002.00020	Published articles	1900	The determination of the stress in an isotropic elastic sphere by means of intrinsic equations, from Messenger of Mathematics, June 1900. Previous Control Number: 3/10
1963.0002 Unit 2	1963.0002.00021	Published articles	1900	Stress in an aeolotropic elastic solid with an infinite plane boundary, from Proceedings of London Mathematical Society, June 1900. Previous Control Number: 3/11

1963.0002 Unit 2	1963.0002.00022	Published articles	1900	Uniplanar stability of a rigid body, from Messenger of Mathematics, July 1900. Previous Control Number: 3/12
1963.0002 Unit 2	1963.0002.00023	Published articles	1900	Stress in the web of a plate girder, from Quarterly Journal of Pure and Applied Mathematics, 1900. Previous Control Number: 3/13
1963.0002 Unit 2	1963.0002.00024	Published articles	1900	The theory of uniformly loaded beams, from Quarterly Journal of Pure and Applied Mathematics, 1900. Previous Control Number: 3/14
1963.0002 Unit 2	1963.0002.00025	Published articles	1901	The inversion of plane stress, from Proceedings of London Mathematical Society, November 1901. Previous Control Number: 3/15
1963.0002 Unit 2	1963.0002.00026	Published articles	1901	The flexure of a circular plate, from Proceedings of London Mathematical Society, December 1901. Previous Control Number: 3/16
1963.0002 Unit 2	1963.0002.00027	Published articles: manuscripts	Undated	The small deformation of curve and surface with application to the vibration of a helix and a circular ring, for Messenger of Mathematics, published 1890. Previous Control Number: 3/17
1963.0002 Unit 2	1963.0002.00028	Published articles: manuscripts	Undated	The uniform flexure and torsion of curvilinear aeolotropic beams, for Quarterly Journal of Pure and Applied Mathematics. Previous Control Number: 3/18
1963.0002 Unit 3	1963.0002.00029	Published articles: manuscripts	Undated	Digest of Legendre's Coefficients; Laplace's Functions; Functions of Bessel. Previous Control Number: 3/19
1963.0002 Unit 3	1963.0002.00030	Published articles: manuscripts	Undated	Elasticity; Plan strain. Previous Control Number: 3/20
1963.0002 Unit 3	1963.0002.00031	Published articles: manuscripts	Undated	Grassmann Calculus. Previous Control Number: 3/21
1963.0002 Unit 3	1963.0002.00032	Published articles: manuscripts	Undated	The funicular polygon. Previous Control Number: 3/22
1963.0002 Unit 3	1963.0002.00033	Published articles: manuscripts	Undated	General course of dynamics of rigid bodies (including gyroscopes). Previous Control Number: 3/23
1963.0002 Unit 3	1963.0002.00034	Published articles: manuscripts	Undated	Numerical and graphical integration of D.E.qm. Previous Control Number: 3/24
1963.0002 Unit 3	1963.0002.00035	Published articles: manuscripts	Undated	Plate uniformly bent. Previous Control Number: 3/25

1963.0002 Unit 3	1963.0002.00036	Published articles: manuscripts	Undated	Sketch of application of Stoke's method of differentiating Fourier Series to Bessels Function Series. Previous Control Number: 3/26
1963.0002 Unit 3	1963.0002.00037	Published articles: manuscripts	Undated	Stable and statistically determinate frame of 2n - 3 bars. Previous Control Number: 3/27
1963.0002 Unit 3	1963.0002.00038	Published articles: manuscripts	Undated	Strain relations. Previous Control Number: 3/28
1963.0002 Unit 3	1963.0002.00039	Summary and notes	1940	Summary of and notes on J M Michell's articles, made by Thomas M Cherry and Malcolm L Urquhart, 1940. Previous Control Number: 3/29
1963.0002 Unit 3	1963.0002.00040	Notes, examples, diagrams, etc.	Undated	Analysis of strain. Previous Control Number: 4/1/1
1963.0002 Unit 3	1963.0002.00041	Notes, examples, diagrams, etc.	Undated	Calculations. Previous Control Number: 4/1/2
1963.0002 Unit 3	1963.0002.00042	Notes, examples, diagrams, etc.	Undated	Case of uniform pressure over circular boundaries. Previous Control Number: 4/1/3
1963.0002 Unit 3	1963.0002.00043	Notes, examples, diagrams, etc.	Undated	Circular or elliptical hole in a flat plate under tension. Previous Control Number: 4/1/4
1963.0002 Unit 3	1963.0002.00044	Notes, examples, diagrams, etc.	Undated	Cylindrical bearing. Previous Control Number: 4/1/5
1963.0002 Unit 3	1963.0002.00045	Notes, examples, diagrams, etc.	Undated	Elasticity; Vector method. Previous Control Number: 4/1/6
1963.0002 Unit 3	1963.0002.00046	Notes, examples, diagrams, etc.	Undated	Error of polar planemeter due to friction of mechanism. Previous Control Number: 4/1/7
1963.0002 Unit 3	1963.0002.00047	Notes, examples, diagrams, etc.	Undated	Flexure and vision of prisms; Stress method. Previous Control Number: 4/1/8
1963.0002 Unit 3	1963.0002.00048	Notes, examples, diagrams, etc.	1900	General solution for solids of revolution, July 1900. Previous Control Number: 4/1/9
1963.0002 Unit 3	1963.0002.00049	Notes, examples, diagrams, etc.	Undated	Given initial disturbance - two dimensions. Previous Control Number: 4/1/10
1963.0002 Unit 3	1963.0002.00050	Notes, examples, diagrams, etc.	Undated	Kinematics of a particle, Chapter 1. Previous Control Number: 4/1/11
1963.0002 Unit 3	1963.0002.00051	Notes, examples, diagrams, etc.	Undated	Ordinary theory of loaded beams long in comparison with the breadth. Previous Control Number: 4/1/12

1963.0002 Unit 3	1963.0002.00052	Notes, examples, diagrams, etc.	Undated	Plate cantilever loaded at one point. Previous Control Number: 4/1/13
1963.0002 Unit 4	1963.0002.00053	Notes, examples, diagrams, etc.	Undated	Potential; Scales and vector fields. Previous Control Number: 4/1/14
1963.0002 Unit 4	1963.0002.00054	Notes, examples, diagrams, etc.	Undated	Single concentrated force - straight boundary and circular boundary. Previous Control Number: 4/1/15
1963.0002 Unit 4	1963.0002.00055	Notes, examples, diagrams, etc.	Undated	Train of waves in viscous fluids of depth. Previous Control Number: 4/1/16
1963.0002 Unit 4	1963.0002.00056	Notes, examples, diagrams, etc.	Undated	On the uniform strain of plane plates. Previous Control Number: 4/1/17
1963.0002 Unit 4	1963.0002.00057	Notes, examples, diagrams, etc.	Undated	Wires (m3 Webb). Previous Control Number: 4/1/18
1963.0002 Unit 4	1963.0002.00058	Notes, examples, diagrams, etc.	Undated	Binomial theorem, notes and examples. Previous Control Number: 4/2/1
1963.0002 Unit 4	1963.0002.00059	Notes, examples, diagrams, etc.	Undated	Complex algebra. Previous Control Number: 4/2/2
1963.0002 Unit 4	1963.0002.00060	Notes, examples, diagrams, etc.	Undated	Non Euclidean space etc. Previous Control Number: 4/2/3
1963.0002 Unit 4	1963.0002.00061	Notes, examples, diagrams, etc.	Undated	Number theory. Previous Control Number: 4/2/4
1963.0002 Unit 4	1963.0002.00062	Notes, examples, diagrams, etc.	Undated	Problem paper. Previous Control Number: 4/2/5
1963.0002 Unit 4	1963.0002.00063	Notes, examples, diagrams, etc.	Undated	Stream line functions. Previous Control Number: 4/2/6
1963.0002 Unit 4	1963.0002.00064	Cambridge University Examination papers	1884	Easter term 1884, Mathematical tripos parts I and II. Previous Control Number: 5/1
1963.0002 Unit 4	1963.0002.00065	Cambridge University Examination papers	1886	Easter term 1886, Mathematical tripos part I. Previous Control Number: 5/2
1963.0002 Unit 4	1963.0002.00066	Cambridge University Examination papers	1887	Easter term 1887, Mathematical tripos parts I and II. Previous Control Number: 5/3

1963.0002 Unit 4	1963.0002.00067	Biographical	1942	John Henry Michell, 1863 - 1940. Biographical article by A G Michell, brother of J H, reprinted from Royal Society Obituary Notices 1940, 1942. Previous Control Number: 6/1
1963.0002 Unit 4	1963.0002.00068	Biographical	1940	Scientific work of the later Professor J H Michell F.R.S. by Thomas M Cherry, 1940. Contains list of J H Michell's publications and notes by D K Picken. Previous Control Number: 6/2
1963.0002 Unit 4	1963.0002.00069	Biographical	1940	Statement from Associate Professor Belz to University of Melbourne Council on death of J H Michell, 4 March 1940. Previous Control Number: 6/3

End of list