

**Supplementary material to:**

T.A. Ford, H.G. Kruger and P. Loyson,

The South African Journal of Chemistry 1918–2018: A Celebration,

*S. Afr. J. Chem.*, 2019, **72**, 201–206.

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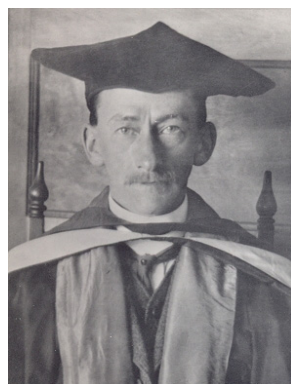
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J. A. Wilkinson



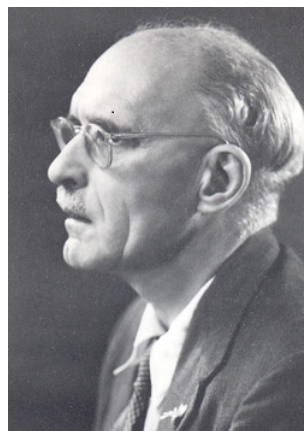
G. H. Stanley



J. Moir



J. McCrae



F. W. Fox



H. A. E. Mackenzie



D. E. A. Rivett



J. R. Bull

Figure S1. Some of the editors-in-chief and coordinating editors of the South African Journal of Chemistry.

**MOLECULAR VIBRATIONAL CONSTANTS OF  
SOME SIMPLE POLYATOMIC MOLECULES. DIHALOGENOMETHANES**

**T.A. FORD\***

Department of Chemistry, University of the Witwatersrand,  
Johannesburg 2001

**R. AROCA M. and E.A. ROBINSON**

Erindale College, University of Toronto,  
Mississauga, Ontario, L5L 1C6, Canada

**Opsomming** Die kragkonstantes en meegaande konstantes van die dihalogenometane is bereken deur die iteratiewe konsistensie-metode. Deur die kragvelde te gebruik wat sodoende verkry is, is die sentrifugale distorsiekonstantes, Coriolis-koppelingskonstantes en gemiddelde vibrasieamplitudes bereken en vergelyk met die beskikbare eksperimentele gegewens.

**Summary** The force constants and compliance constants of the dihalogenomethanes have been calculated by the iterative consistency method. The force fields so obtained were used to calculate the centrifugal distortion constants, Coriolis coupling constants and mean amplitudes of vibration which were compared with the available experimental data.

Figure S2. Extract from the paper S. Afr. J. Chem., **30**, 95-104 (1977).

Table S1. Publications committee chairpersons and publications officers.

J. A. Wilkinson	1918 – 1924	S. Goodman	1961 – 1965
J. Moir	1925	R. E. Robinson	1966
C. C. Frye	1926 – 1929	S. Goodman	1967 – 1974
O. L. Ochse	1930 – 1932	R. R. Arndt	1975 - 1977
J. A. McLachlan	1933 – 1939	F. E. Malherbe	1977 – 1983
B. Segal	1940	J. R. Bull	1983 – 1984
S. S. Israelstam	1941 – 1947	C. J. H. Schutte	1984 – 1989
H. Stephen	1948	P. Bloom	1989 – 1999
A. W. Lategan	1949 – 1952	W. H. Meyer	2000 – 2006
S. S. Israelstam	1953 – 1960		

Table S2. Editors-in-chief and coordinating editors.

J. A. Wilkinson	1918 – 1921	D. E. A. Rivett	1958 – 1966
G. H. Stanley	1922 – 1923	O. G. Backeberg	1966 – 1971
J. Moir	1924 – 1927	J. R Bull	1972 – 1992
J. McCrae	1928	A. T. Hutton	1993 – 1996
F. W. Fox	1929 – 1939	(ad hoc)	1997 – 2000
H. D. Barnes	1940 – 1947	W. H. Meyer	2001 – 2007
H. Stephen	1947 – 1948	T. A. Ford	2007 – 2010
K. A. Murray	1948 – 1952	G. E. Jackson	2010 – 2014
H. A. E. Mackenzie	1953 – 1955	H. G. Kruger	2014 – 2017
L. J. Dry	1956 – 1957	L. Chimuka and T. Naicker	2017 – 2018

Table S3. International advisory board.

E. Alessio	Trieste	Italy
A. J. Barnes	Salford	U.K.
R. Bucat	Perth	Australia
U. Domanska-Zelazna	Warsaw	Poland
H. G. M. Edwards	Bradford	U.K.
I. Fleming	Cambridge	U.K.
L. Glasser	Perth	Australia
G. J. Hutchings	Cardiff	U.K.
T. M. Letcher	Bath	U.K.
R. Simoyi	Portland, OR	U.S.A.
C. J. van der Schyff	Rootstown, OH	U.S.A.
R. van Eldik	Erlangen-Nürnberg	Germany
R. M. A. von Wandruska	Moscow, ID	U.S.A.

Table S4. Financial and technical support.

FINANCIAL

Department of Education, Arts and Sciences

(later the Department of Cultural Affairs)

(later the Department of National Education)

SA Chemical Foundation (1972-1975)

Bureau for Scientific Publications of the Foundation for

Education, Science and Technology (1977-2000)

(became SA Scientific Publications 1995)

TECHNICAL

Sabinet (hosting of on-line publishing) (2000 to date)

Isteg Scientific Publications (technical editing and layout) (2002 to date)



Table S5. Special issues.

Year	Volume	Issue	Celebration
1970	23	2	Papers presented at the IUPAC International Symposium on the Chemical Control of the Human Environment, Johannesburg, 14-18 July 1969
1972	25	3	Papers presented at the Symposium on the Analytical Chemistry of the Platinum Group Metals, Johannesburg, 2-4 February 1972
1982	35	4	Diamond Jubilee of the University of the Witwatersrand
1984	37	3	50 <sup>th</sup> Anniversary of the Council for Mineral Technology
1985	38	3	75 <sup>th</sup> Anniversary of the University of Natal
1986	39	3	Papers presented at the 2 <sup>nd</sup> International Symposium on Analytical Chemistry in the Exploration, Mining and Processing of Minerals, Pretoria, 15-19 April 1985
1986	39	4	90 <sup>th</sup> Birthday of Professor O. G. Backeberg (University of the Witwatersrand)
1987	40	1	Retirement of Professor D. E. A. Rivett (Rhodes University)
1994	47	3/4	Papers presented at the 32 <sup>nd</sup> SACI Convention, Halfway House, 30 January – 3 February 1994
1995	48	1/2	
1995	48	3/4	
1997	50	4	Papers presented at the 4 <sup>th</sup> International Symposium on Applied Bioinorganic Chemistry, incorporating the Carman National Physical Chemistry Symposium, Cape Town, 1-4 April 1997
2000	53	2	80 <sup>th</sup> Birthday of Professor J. A. van den Berg (Potchefstroom University for Christian Higher Education)

Table S6. AECI and Merck Medal winners.

AECI Medal, 1961 – 1998

Jan Boeyens (CSIR and Wits University)	1973, 1980
Eric Singleton (CSIR)	1981, 1986, 1990
Neil Coville (Wits University)	1994

Merck Medal, 2000 to date

Neil Coville (Wits University)	2002, 2010, 2015
Jan Boeyens (Wits University)	2003

Table S7. Numbers of papers published, and journal pages, 1977 - 2000.

Year	Number of papers published	Number of journal pages	Year	Number of papers published	Number of journal pages	Year	Number of papers published	Number of journal pages
1977	26	182	1985	47	214	1993	16	78
1978	35	158	1986	51	254	1994	18	124
1979	38	189	1987	53	242	1995	24	156
1980	30	131	1988	34	176	1996	12	78
1981	29	133	1989	38	168	1997	40	248
1982	44	182	1990	32	138	1998	33	206
1983	36	152	1991	30	130	1999	29	168
1984	41	198	1992	24	114	2000	27	231

Table S8. Numbers of papers submitted and published, and journal pages, 2001 - 2018.

Year	Number of papers submitted	Number of papers published	Number of journal pages	Year	Number of papers submitted	Number of papers published	Number of journal pages
2001	27	10	282	2010	123	39	232
2002	22	15	148	2011	182	41	262
2003	38	12	62	2012	194	44	288
2004	55	12	56	2013	140	46	289
2005	63	25	143	2014	243	39	240
2006	103	28	140	2015	189	34	262
2007	120	23	128	2016	158	31	253
2008	88	28	161	2017	108	27	208
2009	101	34	204	2018	130	25	195

Table S9. Rejection rates, 2001 - 2018.

Year	Rejection rate/%	Year	Rejection rate/%	Year	Rejection rate/%
2001	63.0	2007	67.5	2013	67.1
2002	31.8	2008	59.1	2014	84.0
2003	68.4	2009	66.3	2015	82.0
2004	78.2	2010	68.3	2016	80.4
2005	60.3	2011	65.5	2017	75.0
2006	72.8	2012	77.3	2018	80.8

Table S10. Times to publication, 2000 - 2018.

Year	Time/days			Year	Time/days		
	Shortest	Longest	Average		Shortest	Longest	Average
2000	19	241	91	2010	18	621	142
2001	14	410	194	2011	10	388	133
2002	65	430	168	2012	30	330	140
2003	58	386	209	2013	20	345	191
2004	25	1086	286	2014	39	591	238
2005	51	470	248	2015	58	398	169
2006	53	742	291	2016	12	363	140
2007	26	731	240	2017	52	572	223
2008	35	543	227	2018	120	622	297
2009	67	491	175				

Table S11. Impact factors, 1983 – 2018.

Year	Impact factor	Year	Impact factor	Year	Impact factor
1983	0.534	1995	0.353	2007	0.327
1984	0.778	1996	0.310	2008	0.44
1985	0.442	1997	0.306	2009	0.429
1986	0.409	1998	0.135	2010	0.567
1987	0.49	1999	0.414	2011	0.764
1988	0.385	2000	0.22	2012	0.455
1989	0.44	2001	0.321	2013	0.53
1990	0.35	2002	0.265	2014	0.629
1991	0.26	2003	0.24	2015	0.667
1992	0.34	2004	0.37	2016	0.653
1993	0.39	2005	0.708	2017	0.953
1994	0.33	2006	0.459	2018	- <sup>a</sup>

<sup>a</sup> Not yet available.

Table S12. Breakdown of numbers of papers published by discipline, 1977 – 2018.

Volume	Year	Discipline							Total
		Analytical	Computational	Education	Inorganic	Organic	Physical	Other	
30	1977		3		2	17	4		26
31	1978	1	1		4	19	10		35
32	1979	3	1		9	23	2		38
33	1980	3			3	16	8		30
34	1981	1	1		5	15	7		29
35	1982	4	1		14	12	13		44
36	1983	3			16	12	5		36
37	1984	5			12	18	6		41
38	1985	6			7	29	5		47
39	1986	5	4		13	25	4		51
40	1987	7			9	31	6		53
41	1988	6	3		6	14	5		34
42	1989	9			7	17	5		38
43	1990	5	1		6	14	6		32
44	1991	3	2		7	12	6		30
45	1992	4	1		6	10	3		24
46	1993	4	1		5	4	2		16
47	1994	2			3	11	2		18
48	1995	2	3		9	3	5	2	24



49	1996	6	1		1	4			12
50	1997	6	2		14	11	4	3	40
51	1998	4		4	5	13	3	4	33
52	1999	8		3	4	13		1	29
53	2000	8	1	1	4	9	4		27
54	2001	3			3	3	1		10
55	2002	3				11	1		15
56	2003	3		1	2	4	2		12
57	2004	3		1	4	1	2	1	12
58	2005	9	1	1	3	4	6	1	25
59	2006	6	3		2	14	3		28
60	2007	4				11	6	2	23
61	2008	2	2	1	7	15	1		28
62	2009	3	3	2	4	19	1	2	34
63	2010	3	1	1	9	19	5	1	39
64	2011	8	1	4	9	11	4	4	41
65	2012	9	2		3	20	2	8	44
66	2013	5	4	2	6	18	6	5	46
67	2014	8		2	6	14	5	4	39
68	2015	9	1	1	4	8	7	4	34
69	2016	13			8	2	4	4	31
70	2017	5	1	1	10	7	2	1	27
71	2018	13	1		5	4	1	1	25

Table S13. Breakdown of numbers of papers published by country of origin, 1977 – 2018.

Volume	Year	Country of origin		Total number of papers published	Percentage South African
		South Africa	Other		
30	1977	23	Rhodesia 2, UK 1	26	88
31	1978	35		35	100
32	1979	37	UK 1	38	97
33	1980	30		30	100
34	1981	29		29	100
35	1982	42	Chile 1, France 1	44	95
36	1983	35	India 1	36	97
37	1984	40	India 1	41	98
38	1985	43	UK 4	47	91
39	1986	49	Canada 1, USA 1	51	96
40	1987	51	Germany 1, UK 1	53	96
41	1988	33	USA 1	34	97
42	1989	35	Germany 2, UK 1	38	92
43	1990	30	Germany 1, UK 1	32	94
44	1991	29	Swaziland 1	30	97
45	1992	21	Botswana 1, Swaziland 1, Switzerland 1	24	88
46	1993	16		16	100
47	1994	14	China 1, Germany 2, Poland 1	18	78

48	1995	21	UK 1, USA 2	24	88
49	1996	10	Germany 1, Nigeria 1	12	83
50	1997	31	Australia 1, China 3, Czech Republic 1, Germany 1, Japan 1, UK 1, USA 1	40	78
51	1998	27	China 1, Namibia 1, UK 1, USA 2, Zimbabwe 1	33	82
52	1999	24	Egypt 2, Romania 2, Turkey 1	29	83
53	2000	18	Australia 1, Germany 1, Nigeria 1, Oman 1, Romania 1, Turkey 1, UK 1, USA 2	27	67
54	2001	9	Oman 1	10	90
55	2002	12	Botswana 1, Kenya 1, Romania 1	15	80
56	2003	8	Austria 1, Botswana 1, Egypt 1, Turkey 1	12	67
57	2004	6	Algeria 1, Austria 1, China 2, Mauritius 1, UK 1	12	50
58	2005	13	Botswana 2, China 5, India 1, Kenya 1, Korea 1, Nigeria 1, USA 1	25	52
59	2006	16	China 2, Cote d'Ivoire 1, India 3, Iran 3, Macedonia 1, Nigeria 2	28	57
60	2007	7	Algeria 1, China 3, India 6, Iran 4, Kenya 1, Turkey 1	23	30
61	2008	11	Algeria 1, China 4, Egypt 1, India 5, Iran 4, Romania 1, Turkey 1	28	39
62	2009	18	China 1, Egypt 1, India 6, Iran 6, Kenya 1, Serbia 1	34	53
63	2010	15	China 3, Guyana 1, India 8, Iran 6, Nigeria 1, Tunisia 1, Turkey 2, USA 1, Zimbabwe 1	39	38
64	2011	22	Belgium 1, Brazil 1, China 3, India 3, Iran 6, Jordan 1, Malaysia 1, Poland 1, USA 1, Yemen 1	41	54
65	2012	20	Algeria 2, Botswana 1, China 4, India 5, Iran 10, Mexico 1, Turkey 1	44	45
66	2013	21	Botswana 1, China 5, DRC 1, India 2, Iran 11, Nigeria 2, Pakistan 1, Turkey 2	46	46
67	2014	12	Botswana 1, China 5, India 6, Iran 7, Lesotho 2, Nigeria 1, Poland 1, Saudi Arabia 1, Serbia 1, Tanzania 1, Zimbabwe 1	39	31

68	2015	17	Botswana 1, China 2, Ethiopia 1, Iran 7, Kenya 1, Nigeria 2, Pakistan 1, Saudi Arabia 2	34	50
69	2016	20	Egypt 1, India 1, Iran 5, Nigeria 1, Pakistan 1, Poland 1, USA 1	31	65
70	2017	9	Botswana 1, Brazil 1, China 1, Iran 5, Kenya 1, Lesotho 2, Malaysia 1, Mexico 1, Nigeria 2, Pakistan 1, Saudi Arabia 1, Senegal 1	27	33
71	2018	11	Algeria 1, China 1, Ethiopia 1, India 2, Iran 1, Kenya 1, Korea 1, Lesotho 1, Nigeria 2, Pakistan 1, Tanzania 1, Tunisia 1	25	44