

# A bibliography of L.E.J. Brouwer

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[updated November, 2008]

The list below contains not only the scientific papers that appeared in journals or in book form, but also his contributions to newspapers, magazines, etc.

I have adopted the convention of dating a paper according to its year of publication. For that reason the codes differ here and there from the codes of the collected works. These codes have been indicated as ‘Freudenthal-Heyting Verzeichnis’ (FHV).

The data of submission has been adopted from the paper as published, but also from Brouwer’s correspondence, when available. The publication year is that of the journal volume; whenever available more details are given, based on reprints. In the case of series published by academies or scientific organizations, the submission is usually made by a member, and the date may be recorded. In addition there may be information available about the submission of the author to a member of the organization. Before Brouwer joined the Royal Dutch Academy of Science, his papers were submitted to the proceedings of the Academy by Korteweg, often jointly with Schoute. Once he was a member, he could submit his own papers.

No doubt, this list is incomplete. Comments and supplements are welcome.

Abbreviations:

CR Paris	Comptes Rendus des Séances de l'Académie des Sciences. Paris
CW I, CW II	Collected Works, Volume 1 and 2
Jahresb. D.M.V.	Jahresbericht der Deutschen Mathematiker Vereinigung
JFM	Jahrbuch über die Fortschritte der Mathematik
KNAW Proc.	Koninklijke Akademie van Wetenschappen. Proceedings
KNAW Verh.	Verhandelingen der Koninklijke Akademie van Wetenschappen te Amsterdam
KNAW Versl.	Koninklijke Akademie van Wetenschappen. Verslagen
MA	Mathematische Annalen
Math. Rev.	Mathematical Reviews
Zbl.	Zentralblatt für Mathematik

For the reviews in the JFM, see  
[www.emis.de:80/MATH/JFM/quick.html](http://www.emis.de:80/MATH/JFM/quick.html)

**1904A1**

[FHV: 1904 A1]

Over de splitsing van de continue beweging om een vast punt  $O$  van  $R_4$  in twee continue bewegingen om  $O$  van  $R_3$ 's. *KNAW Versl.* 12, p.819–839.

**submitted:** 27.02.1904.      **published:** 09.03.1904.

**submitted by:** D.J. Korteweg.

**reviews:** JFM 35.0696.04 (publ. ), p. . Reviewer: Lampe.

**1904A2**

[FHV: 1904 A2]

On a decomposition of a continuous motion about a fixed point  $O$  of  $S_4$  into two continuous motions about  $O$  of  $S_3$ 's. *KNAW Proc.* 6, p.716–735.

**also in:** *CW II*, p.3–22.

**submitted:** 27.02.1904 D.J. Korteweg.      **published:** –.–.1904.

**1904B1**

[FHV: 1904 B1]

Over symmetrische transformatie van  $R_4$  in verband met  $R_r$  en  $R_l$ . *KNAW Versl.* 12, p.926–928.

**submitted:** 23.04.1904.      **published:** 05.05.1904.

**submitted by:** D.J. Korteweg, P.H. Schoute.

**reviews:** JFM 35.0572.07, 1904 (publ. 1906), p. . Reviewer: Lampe.

**1904B2**

[FHV: 1904 B2]

On symmetric transformation of  $S_4$  in connection with  $S_r$  and  $S_l$ . *KNAW Proc.* 6, p.785–787.

also in: *CW II*, p.25–27

submitted: 23.04.1904. published: –.–.1904.

submitted by: D.J. Korteweg.

**1904C1**

[FHV: 1904 C1]

Algebraïsche afleiding van de splitsbaarheid der continue beweging om een vast punt van  $R_4$  in die van twee  $R_3$ 's. *KNAW Versl.* 12, p.941–947.

submitted: 23.04.1904. published: 05.04.1904.

submitted by: D.J. Korteweg, P.H. Schoute.

reviews: JFM 35.0697.02, 1904 (publ. 1906), p. . Reviewer: Lampe.

**1904C2**

[FHV: 1904 C2]

Algebraic deduction of the decomposability of the continuous motion about a fixed point of  $S_4$  into those of two  $S_3$ 's. *KNAW Proc.* 6, p.832–838.

also in: *CW II*, p.28–34.

submitted: 23.04.1904 D.J. Korteweg. published: –.–.1904.

**1904D**

Een Blijde Wereld? *Studentenweekblad, Delft*, 6.10.1904. p.8.

remarks: pseudonym Lau van der Zee.

published: 06.10.1904.

**1904E**

untitled. *Propria Cures*, XVI, 5. 15.10.1904.

remarks: Announcement of Bolland lectures. In Brouwer's style. No signature.

published: 15.10.1904.

**1904F**

Bolland in Delft. *Studentenweekblad, Delft*, 17.11.1904. p.58.

remarks: pseudonym Lau van der Zee.

published: 17.11.1904.

**1904G**

Over Moraal. *Propria Cures*, XVI, 10. 19.11.1904, p.110.

remarks: signed by Lau van der Zee.

published: 19.11.1904.

**1904H**

Troostgronden. *Propria Cures*, XVI, 14. 31.12.1904, p.157.

remarks: draft under heading 'Bollandiana' in Archive. Signed 'L.v.d.Z.'

published: 31.12.1904.

**1905A**

[FHV: 1905]

*Leven, Kunst en Mystiek*. Waltman, Delft 1905, 99 p.

**also in:** Selections in English translation: *CW I*, p.1–9.

**remarks:** Life, Art and Mysticism. Advertised June 8. Translated in [Brouwer 1996].

**published:** –.06.1905.

**1905B**

Over Moraal (Excerpt). *Studentenweekblad, Delft*, 9.2.1905, p.137–138.

**remarks:** signed, Lau van der Zee. Copy of *Propria Cures*, XVI, 10. 19.11.1904, p.110.

**published:** 09.02.1905.

**1905C**

Beoordeling van Scheltema's "Amsterdam". *Juffrouw Ida*, 11, 41–44.

**remarks:** handwritten doc. Edited by Rob Delvigne.

**1906A1**

[FHV: 1906 A1]

Meerdimensionale vectordistributies. *KNAW Versl.* 15, p.14–26.

**submitted:** 26.05.1906. **published:** 06.06.1906.

**submitted by:** D.J. Korteweg & P.H. Schoute.

**reviews:** JFM 37.0587.01, 1906 (publ. 1909), p.587. Reviewer: Wölfling.

**1906A2**

[FHV: 1906 A2]

Polydimensional vector distributions. *KNAW Proc.* 9, p.66–78;

**also in:** *CW II*, p.36–48.

**remarks:** corrected version of 1906 A1.

**submitted:** 30.06.1906. **published:** –.–.1906.

**1906B1**

[FHV: 1906 B1]

Het krachtveld der niet-Euclidische, negatief gekromde ruimten. *KNAW Versl.* 15, p.75–94.

**submitted:** 30.06.1906. **published:** 20.07.1906.

**submitted by:** D.J. Korteweg & P.H. Schoute.

**reviews:** JFM 37.0587.02, 1906 (publ. 1909), p.587. Reviewer: Wölfling.

**1906B2**

[FHV: 1906 B2]

The force field of the non-Euclidean spaces with negative curvature. *KNAW Proc.* 9, p.116–133.

**also in:** *CW II*, p.54–71.

**submitted:** 30.06.1906. **published:** –.–.1906.

**submitted by:** D.J. Korteweg.

**1906C1**

[FHV: 1906 C1]

Het krachtveld der niet-Euclidische positief gekromde ruimten. *KNAW Versl.* 15, p.293–310.

**submitted:** 29.09.1906. **published:** 10.10.1906.

**submitted by:** D.J. Korteweg & P.H. Schoute.

**reviews:** JFM 37.0587.03, 1906 (publ. 1909). Reviewer: Wölfling.

**1906C2**

[FHV: 1906 C2]

The force field of the non-Euclidean spaces with positive curvature. *KNAW Proc.* 9, p.250–266.

**also in:** *CW II*, p.73–89.

**remarks:** Corr. in 1909H2 **submitted:** 29.09.1906. **published:** 27.10.1906.

**1907**

[FHV: 1907]

*Over de Grondslagen der Wiskunde.* Maas & van Suchtelen, Amsterdam, 1907, 183p.

**also in:** [Brouwer 1981C]; [Brouwer 2001]. English translation ‘On the Foundations of Mathematics’ in *CW I*, p.11–101.

**remarks:** Dissertation. Also published as book without the obligatory academic first two pages and the Theses. In 1919 the remaining copies were marketed in a hard cover by Noordhoff, Groningen.

**published:** 19.02.1907.

**reviews:** JFM 38.0081.04, 1907 (publ. 1910), p.81–84. Reviewers: Barrau, Schuh.

*Nieuw Archief voor Wiskunde* 8, 1909, p.175–180. Reviewer: Mannoury.

*De Beweging*, 3, 1907, p.241–249. Reviewer: Mannoury.

*Wiskundig Tijdschrift* 4, 1907, p.33–35. Reviewer: Mannoury.

**1908A**

[FHV: 1908 A]

Die mögliche Mächtigkeiten. *Atti IV Congr. Intern. Mat. Roma III*, Ed. G. Castelnuovo. Ac. dei Lincei Roma. p.569–571.

**also in:** *CW I*, p.102–104.

**published:** –.–.1908.

**reviews:** JFM 40.0099.04, 1909 (publ. 1912), p.99. Reviewer: Vivanti.

**1908B**

[FHV: 1908 B]

Over de grondslagen der wiskunde. *Nieuw Archief voor Wiskunde (II)* 8, p.326–328.

**remarks:** translated in *CW I*, p.105–106 ‘On the foundations of mathematics’.

**published:** –.–.1908.

**reviews:** JFM 1908, 39.0081.02 (publ. 1911), p.81. Reviewer: Lampe.

**1908C** [FHV: 1908 C]  
De onbetrouwbaarheid der logische principes. *Tijdschrift voor Wijsbegeerte*. 2, p.152–158  
**remarks:** accepted 3.1.1908, letter Kohnstamm.  
**also in:** [Brouwer 1919B]. Translated in *CW I*, p. 107–111. ‘The unreliability of the logical principles’. French translation in [Largeault 1992].  
**published:** –.–.1908.

**1908D1** [FHV: 1908 D1]  
Over differentiequotienten en differentiaalquotienten. *KNAW Versl.* 17, p.38–45.  
**submitted:** 30.05.1908. **published:** 12.06.1908.  
**submitted by:** D.J. Korteweg & P.H. Schoute.  
**reviews:** JFM 39.0349.01, 1908 (publ. 1911), p. . Reviewer: Kowalewski.

**1908D2** [FHV: 1908 D2]  
About difference quotients and differential quotients. *KNAW Proc.* 11, p.59–66.  
**also in:** *CW II*, p.93–100.  
**submitted:** 30.05.1908. **published:** 27.06.1908

**1909A** [FHV: 1909 A]  
*Het Wezen der Meetkunde*. Clausen, Amsterdam.  
**also in:** *CW I*, p.112–120, ‘The Nature of Geometry’. [Brouwer 1919 B]. French translation in [Largeault 1992].  
**remarks:** Openbare Les privaatdocent 12.10.1909. (inaugural lecture).  
**published:** –.10.1909.  
**reviews:** JFM 40.0520.01, 1909. (publ. 1912), p.529. Reviewer: Schuh.

**1909B** [FHV: 1909 B]  
Die Theorie der endlichen continuierlichen Gruppen, unabhängig von den Axiomen von Lie. *Atti IV Congr. Intern. Mat. Roma II*, Ed. G. Castelnuovo. Ac. dei Lincei. Roma. p.296–303.  
**also in:** *CW II*, p.109–116.  
**remarks:** conference talk 9.4.1908.  
**published:** –.–.1909.  
**reviews:** JFM 40.0194.02, 1909 (publ. 1912). Reviewer: Vivanti.

**1909C** [FHV: 1909 C]  
Die Theorie der endlichen continuierlichen Gruppen, unabhängig von den Axiomen von Lie, I. *MA* 67, p.246–267.  
**also in:** *CW II*, p.118–139.  
**remarks:** ‘Berichtigung’, see [Brouwer 1910G]. Letter to Hilbert 14.5.1909.  
**published:** –.–.1909.  
**reviews:** JFM 40.0194.01, 1909, publ. 1912. p.194. Reviewer: Engel.

**1909D**

[FHV: 1909 D]

Over de niet-Euclidische meetkunde. *Nieuw Archief voor Wiskunde (II)* 9, p.72–74.

**remarks:** comments on a paper of Bouman, NAW 9, 483–495. Bouman’s reaction NAW 10, 75–77.

**submitted:** Brouwer to Kluyver — 15.04.1909; to NAW — 30.05.1908.

**published:** –.–.1909.

**1909E**

[FHV: 1909 E]

Karakteriseering der Euclidische en niet-Euclidische bewegingsgroepen in  $R_n$ . *Handelingen van het Nederlandsch Natuur- en Geneeskundig Congres* 12, p.189–199.

**also in:** translated in *CW II*, p.185–192, ‘Characterization of the Euclidean and non-Euclidean motion groups in  $R_n$ .’

**remarks:** corrections p.11.

**published:** –.–.1909.

**reviews:** JFM 40.0526.02, 1909 (publ. 1912). Reviewer: Schuh.

**1909F1**

[FHV: 1909 F1]

Over één-éénduidige, continue transformaties van oppervlakken in zichzelf. *KNAW Versl.*, 17, p.741–752.

**submitted:** 27.02.1909. **published:** 11.03.1909.

**submitted by:** D.J. Korteweg & P.H. Schoute.

**reviews:** JFM 40.0692.01, 1909 (publ. 1912). Reviewer: Lampe.

**1909F2**

[FHV: 1909 F2]

Continuous one-one transformations of surfaces in themselves. *KNAW Proc.* 11, p.788–798.

**submitted:** 27.02.1909. **published:** 27.03.1909.

**submitted by:** D.J. Korteweg.

**1909G1**

[FHV: 1909 G1]

Over continue vectordistributies op oppervlakken. *KNAW Versl.* 17, p.896–904.

**submitted:** Brouwer to Korteweg — 16.03.1909; to KNAW — 27.03.1909.

**published:** 07.04.1909.

**submitted by:** D.J. Korteweg & P.H. Schoute.

**reviews:** JFM 40.0372.03, 1909 (publ. 1912), p.372. Reviewer: Wallenberg.

**1909G2**

[FHV: 1909 G2]

On continuous vector distributions on surfaces. *KNAW Proc.* 11, p.850–858.

**also in:** *CW II*, p.273–281.

**submitted:** 27.03.1909. **published:** 23.04.1909.

**submitted by:** D.J. Korteweg.

**1909H1**

[FHV: 1909 H1]

Over één-éénduidige, continue transformaties van oppervlakken in zichzelf, II. *KNAW Versl.* 18, p.106–117.

**submitted:** Brouwer to Korteweg — 18.06.1909; to KNAW — 26.06.1909.

**published:** 13.07.1909.

**submitted by:** D.J. Korteweg & P.H. Schoute.

**reviews:** JFM 40.0691.02, 1909 (publ. 1912). Reviewer: Lampe.

**1909H2**

[FHV: 1909 H2]

Continuous one-one transformations of surfaces in themselves, II. *KNAW Proc.* 12, p.286–297.

**also in:** *CW II*, p.207–218.

**remarks:** contains erratum to 1906B3.

**submitted:** 26.06.1909. **published:** 30.10.1909.

**submitted by:** D.J. Korteweg.

**1910A1**

[FHV: 1910 A1]

Over continue vectordistributies op oppervlakken, II. *KNAW Versl.* 18, p.702 – 721.

**remarks:** Contains corrections to part I, [Brouwer 1909F1].

**submitted:** 26.02.1910. **published:** 08.03.1910.

**submitted by:** D.J. Korteweg & P.H. Schoute.

**reviews:** JFM 41.0543.04, 1910 (publ. 1913), p.543. Reviewer: Lampe. JFM 41.0704.04, 1910 (publ. 1913), p.704. Reviewer: Brouwer.

**1910A2**

[FHV: 1910 A2]

On continuous vector distributions on surfaces, II. *KNAW Proc.* 12, p.716–734.

**also in:** *CW II*, p.283–302.

**submitted:** 26.02.1910 **published:** --.1910

**submitted by:** D.J. Korteweg

**1910B1**

[FHV: 1910 B1]

Over de structuur der perfecte puntverzamelingen. *KNAW Versl.* 18, p.833–842

**submitted:** 26.03.1910 **published:** 11.04.1910

**submitted by:** D.J. Korteweg & P.H. Schoute

**reviews:** JFM 41.0103.03, 1910 (publ. 1913). Reviewer: Vivanti.

**1910B2**

[FHV: 1910 B2]

On the structure of perfect sets of points. *KNAW Proc.* 12, p.785–794.

**also in:** *CW II*, p.341–350.

**submitted:** 26.03.1909 **published:** --.1910

**submitted by:** D.J. Korteweg

**1910C** [FHV: 1910 C]  
Zur Analysis Situs. *MA* 68, p. 422–434.  
**also in:** *CW II*, p. 352–366.  
**submitted:** 14.05.1909 **published:** --.1910, joint reprint with  
A. Schoenflies — *Bemerkung zu dem vorstehenden Aufsatz des Herrn L.E.J. Brouwer*

**1910D1** [FHV: 1910 D1]  
Over continue vectordistributies op oppervlakken, III. *KNAW Versl.* 19, p.36–51  
**submitted:** 28.05.1910 **published:** 09.07.1910  
**submitted by:** D.J. Korteweg & P.H. Schoute  
**reviews:** *JFM* 41.0543.04, 1910 (publ. 1913), p.543. Reviewer: Lampe. *JFM* 41.0704.04, 1910 (publ. 1913), p.704. Reviewer: Brouwer.

**1910D2** [FHV: 1910 D2]  
On continuous vector distributions on surfaces, III. *KNAW Proc.* 12, p. 171–186.  
**also in:** *CW II*, p. 303–318.  
**submitted:** 28.05.1910 **published:** --.1910  
**submitted by:** D.J. Korteweg

**1910E** [FHV: 1910 E]  
Beweis des Jordanschen Kurvensatzes. *MA* 69, p.169–175.  
**also in:** *CW II*, p.377–383.  
**remark:** Corr. in 1910L, 1919F. **published:** --.1910  
**reviews:** *JFM* 41.0544.02, 1910 (publ. 1913), p.544. Reviewer: Dehn.

**1910F** [FHV: 1910 F]  
Über eineindeutige, stetige Transformationen von Flächen in sich. *MA* 69, p.176–180.  
**also in:** *CW II*, p.244–248.  
**remarks:** Berichtigung, see [Brouwer 1910L] and [Brouwer 1919F].  
**submitted:** --.08.1909 **published:** --.1910  
**reviews:** *JFM* 41.0544.01, 1910 (publ. 1913), p.544. Reviewer: Dehn.

**1910G** [FHV: 1910 G]  
Berichtigung. *MA* 69, p.180.  
**remarks:** refers to [Brouwer 1909C].  
**published:** --.1910

**1910H** [FHV: 1910 H]  
Die Theorie der endlichen kontinuierlichen Gruppen, unabhängig von den Axiomen von Lie, II. *MA* 69, p. 181–203.  
**also in:** *CW II*, p.156–178.  
**published:** --.1910  
**reviews:** JFM 41.0181.03, 1910 (publ. 1913). Reviewer: Engel.

**1910J** [FHV: 1910 J]  
Sur les continus irréductibles de M. Zoretti. *Annales Éc. Norm. Sup.* 27, p.565–566  
**also in:** *CW II*, p. 373–374.  
**submitted:** 05.06.1910      **published:** --.1910

**1910L** [FHV: 1910 L]  
Berichtigung. *MA* 69, p.592.  
**remarks:** refers to [Brouwer 1910F].  
**published:** --.1910

**1910M**  
G. Mannoury, Methodologisches und Philosophisches. *De Nieuwe Amsterdammer*, 28.8.1910  
**remarks:** review  
**published:** 28.08.1910

**1911A** [FHV: 1911 A]  
Mannoury, Methodologisches und Philosophisches zur Elementar-Mathematik, Haarlem 1909. *Nieuw Archief voor Wiskunde (II)* 9, p.199–201.  
**also in:** Translation in *CW I*, p.121–122,  
**remarks:** Review  
**published:** --.1911

**1911B1** [FHV: 1911 B1]  
Over de structuur der perfecte puntverzamelingen, II. *KNAW Versl.* 19, p.1416–1426.  
**submitted:** 28.04.1911      **published:** 10.05.1911  
**submitted by:** D.J. Korteweg & P.H. Schoute  
**reviews:** JFM 42.0089.13, 1911 (publ. 1914), p.89. Reviewer: Vivanti.

**1911B2** [FHV: 1911 B2]  
On the structure of perfect sets of points, II. *KNAW Proc.* 14, p.137–147.  
**also in:** *CW II*, p.384–394.  
**submitted:** 28.04.1911      **published:** --.1911  
**submitted by:** D.J. Korteweg

- 1911C** [FHV: 1911 C]
- Beweis der Invarianz der Dimensionenzahl. *MA* 70, p.161–165.  
**also in:** *CW II*, p.430–434.  
**submitted:** –.06.1910      **published:** 14.02.1911  
**reviews:** JFM 42.0416.02, 1911 (publ. 1914), p.416–417. Reviewer: Blaschke.
- 1911D** [FHV: 1911 D]
- Über Abbildung von Mannigfaltigkeiten. *MA* 71, p.97–115.  
**also in:** *CW II*, p.454–472.  
**remarks:** The reprints carry a sticker with a simplification of the proof of thm.3. Berichtigung, see [Brouwer 1911 M] and [Brouwer 1921E].  
**submitted:** –.07.1910      **published:** –.25.7.1911  
**reviews:** JFM 42.0417.01, 1911 (publ. 1914), p.417–418. Reviewer: Blaschke.
- 1911E** [FHV: 1911 E]
- Beweis der Invarianz des  $n$ -dimensionalen Gebiets. *MA* 71, p.305–313.  
**also in:** *CW II*, p.477–485.  
**remarks:** Berichtigung, see [Brouwer 1921]. Sent to Hilbert 14.7.1911  
**submitted:** 14.07.1911; printer’s proof 20.10.1911  
**published:** 16.11.1911  
**reviews:** JFM 42.0418.01, 1911 (publ. 1914), p.418. Reviewer: Blaschke.
- 1911F** [FHV: 1911 F]
- Beweis des Jordanschen Satzes für den  $n$ -dimensionalen Raum. *MA* 71, p.314–319.  
**also in:** *CW II*, p. 489–494.  
**published:** 16.11.1911  
**reviews:** JFM 42.0418.02, 1911 (publ. 1914), p.418. Reviewer: Blaschke.
- 1911G** [FHV: 1911 G]
- Über Jordansche Mannigfaltigkeiten. *MA* 71, p.320–327.  
**also in:** *CW II*, p.498–505.  
**remarks:** Bemerkung, see [Brouwer 1911 N]  
**published:** 16.11.1911  
**reviews:** JFM 42.0418.03, 1911 (publ. 1914), p.418–419. Reviewer: Blaschke.
- 1911H1** [FHV: 1911 H1]
- Over één-éénduidige, continue transformaties van oppervlakken in zichzelf, III. *KNAW Versl.* 19, p.737–747.  
**submitted:** 24.12.1910      **published:** 11.01.1911  
**submitted by:** D.J. Korteweg & P.H. Schoute  
**remarks:** This and/or the next paper was submitted by Brouwer to Korteweg on 30.11.1910  
**reviews:** JFM 42.0707.02, 1911 (publ. 1914), p.707. Reviewer: Engel.

**1911H2** [FHV: 1911 H2]  
Continuous one-one transformations of surfaces in themselves, III. *KNAW Proc.*  
13, p. 767–777.  
**also in:** *CW II*, p.221–231.  
**submitted:** 24.12.1910 **published:** --.1911  
**submitted by:** D.J. Korteweg

**1911J1** [FHV: 1911 J1]  
Over één-éénduidige, continue transformaties van oppervlakken in zichzelf, IV.  
*KNAW Versl.* 20, p.24–34.  
**submitted:** 27.05.1911 **published:** 08.06.1911  
**submitted by:** D.J. Korteweg & P.H. Schoute  
**reviews:** JFM 42.0707.02, 1911 (publ. 1914), p.707. Reviewer: Engel.

**1911J2** [FHV: 1911 J2]  
Continuous one-one transformations of surfaces in themselves, IV. *KNAW Proc.*  
14, p.300–310.  
**also in:** *CW II*, p.233–243.  
**submitted:** 27.05.1911 **published:** 29.10.1911  
**submitted by:** D.J. Korteweg

**1911K** [FHV: 1911 K]  
Sur une théorie de la mesure. A propos d’un article de M.G. Combebiac.  
*L’enseignement Math.* 13, p.377–380.  
**also in:** *CW II*, p.181–183.  
**published:** --.1911  
**reviews:** JFM 42.0446.01, 1911 (publ. 1914), p.446. Reviewer: Oppenheim.

**1911L** [FHV: 1911 L]  
Sur le théorème de M. Jordan dans l’espace à  $n$  dimensions. *CR Paris* 153,  
p.542–543.  
**also in:** *CW II*, p.496–497.  
**submitted:** 11.09.1911 **published:** --.1911  
**reviews:** JFM 42.0507.03, 1911 (publ. 1914), p.507. Reviewer: Lichtenstein.

**1911M** [FHV: 1911 M]  
Berichtigung. *MA* 71, p.598.  
**also in:** *CW II*, p.474.  
**remarks:** refers to [Brouwer 1911D]  
**published:** --.1911

**1911N** [FHV: 1911 N]

Bemerkung zu dem Aufsatz von L.E.J. Brouwer: ‘Über Jordansche Mannigfaltigkeiten’. *MA* 71, p.598.  
**also in:** *CW II*, p.506.  
**remarks:** refers to [Brouwer 1911 G]  
**published:** --.1911  
**reviews:** JFM 42.0419.01, 1911 (publ. 1914), p.419. Reviewer: Blaschke.

**1912A** [FHV: 1912 A1]

*Intuitionisme en Formalisme*. Clausen, Amsterdam.  
**also in:** Wiskundig Tijdschrift 9, p.180–211; [Brouwer 1919B]. [Brouwer 2001] English translation [Brouwer 1913C]. Polish translation [Brouwer 1986]. French translation in [Largeault 1992].  
**remarks:** Inaugural Lecture, 14.10.1912. A commercial edition was published by Noordhoff, Groningen (1912).  
**published:** --.1912  
**reviews:** JFM 43.0111.01, 1912 (publ. 1915), p.111. Reviewer: Barrau. Tijdschrift voor Wijsbegeerte 7, (1913), p.237–239.

**1912B** [FHV: 1912 B]

Beweis des ebenen Translationssatzes. *MA* 72, p.37–54.  
**also in:** *CW II*, p.250–267.  
**published:** --.1912  
**reviews:** JFM 43.0569.02, 1912 (publ. 1915), p.569. Reviewer: Engel.

**1912C** [FHV: 1912 C]

Zur Invarianz des  $n$ -dimensionalen Gebiets. 1912 *MA* 72, p.55–56.  
**also in:** *CW II*, p.509–510.  
**published:** 15.03.1912  
**reviews:** JFM 43.0479.03, 1912 (publ. 1915), p.479. Reviewer: Engel

**1912D** [FHV: 1912 D]

Über die topologischen Schwierigkeiten des Kontinuitätsbeweises der Existenztheoreme eindeutig umkehrbarer polymorpher Funktionen auf Riemannschen Flächen (Auszug aus einem Brief an R. Fricke). *Nachr. Göttingen* 1912, p.603–606.  
**also in:** *CW II*, p. 577–580.  
**remarks:** The letter to Fricke is dated 22.12.1911  
**submitted:** 13.01.1912 **published:** --.06.1912  
**submitted by:** F. Klein  
**reviews:** JFM 43.0527.02, 1912 (publ. 1915), p.527. Reviewer: Weyl.

**1912E1** [FHV: 1912 E1]  
Over omloopcoëfficiënten. *KNAW verslagen* 20, p. 1049–1057.  
**submitted:** 24.02.1912    **published:** 08.03.1912  
**submitted by:** L.E.J. Brouwer & P.H. Schoute

**1912E2** [FHV: 1912 E2]  
On looping coefficients. *KNAW Proc.* 15, p.113–122.  
**also in:** *CW II*, p.511–520.  
**submitted:** 24.02.1912    **published:** --.1912  
**submitted by:** D.J. Korteweg

**1912F** [FHV: 1912 F]  
Sur l'invariance de la courbe fermée. *CR Paris* 154, p.862–863.  
**also in:** *CW II*, p.521– 522.  
**submitted:** 01.04.1912    **published:** 19.07.1912  
**reviews:** JFM 43.0569.04, 1912 (publ. 1915). Reviewer: Lampe.

**1912G** [FHV: 1912 G]  
Über die Singularitätenfreiheit der Modulmannigfaltigkeit. *Nachr. Göttingen.*  
1912, p.803–806  
**also in:** *CW II*, p.587–590.  
**remarks:** The argument was communicated to Fricke in a letter of 30.12.1911.  
**submitted:** submitted to Hilbert 12.06.1912    **published:** --.1912  
**submitted by:** D. Hilbert in the meeting of 22.06.1912  
**reviews:** JFM 43.0527.02, 1912 (publ. 1915). Reviewer: Weyl.

**1912H** [FHV: 1912 H]  
Über den Kontinuitätsbeweis für das Fundamentaltheorem der automorphen  
Funktionen im Grenzkreisfalle. *Jahresb. D.M.V.* 21, p.154–157.  
**also in:** *CW II*, p.568– 571.  
**remarks:** The reprints carry a sticker added by Brouwer, dated 01.05.1913.  
**published:** 06.08.1912 (date on reprint)  
**reviews:** JFM 43.0525.02, 1912 (publ. 1915). A global review of the Karlsruhe  
symposium on automorphic functions. Reviewer: Koebe.

**1912K1** [FHV: 1912 K1]  
Over één-éénduidige, continue transformaties van oppervlakken in zichzelf, V.  
*KNAW Versl.* 21, p.300–309.  
**submitted:** 28.09.1912    **published:** 12.10.1912  
**submitted by:** L.E.J. Brouwer  
**reviews:** JFM 43.0692.01, 1912 (publ. 1915), p.692. Reviewer: Engel.

**1912K2**

[FHV: 1912 K2]

Continuous one-one transformations of surfaces in themselves, V. *KNAW Proc.* 15, p.352–360.

**also in:** *CW II*, p.527–536.

**remarks:** cf. [Brouwer 1920 G2]

**submitted:** 28.09.1912      **published:** --.1912

**submitted by:** L.E.J. Brouwer

**1912L**

[FHV: 1912 L]

Beweis der Invarianz der geschlossenen Kurve. *MA* 72, p.422–425.

**also in:** *CW II*, p.523–526.

**published:** --.1912

**1912M**

[FHV: 1912 M]

Sur la notion de ‘classe’ de transformations d’une multiplicité. *Proc. V Int. Congr. Math. Cambridge 1912, II*, Eds. E.W. Hobson, A.F.H. Love. Cambridge University Press, Cambridge. p.9–10.

**also in:** *CW II*, p.538–539

**published:** --.1912

**reviews:** JFM 44.0555.02, 1913 (publ. 1918), p.555. Reviewer: Lampe.

**1913A**

[FHV: 1913 A]

Über den natürlichen Dimensionsbegriff. *Journ. r. u. angew. Math.* 142, p.146–152.

**also in:** *CW II*, p. 540–546.

**remarks:** Berichtigung, see [Brouwer 1923D] and [Brouwer 1924M]

**published:** 27.01.1913 (date received by Un. Library Amsterdam)

**reviews:** JFM 44.0555.01, 1913 (publ. 1916), p.555. Reviewer: Blaschke.

The Berichtigung was reviewed by Fraenkel — JFM 50.0128.01, 1924 (publ. 1928/29)

**1913B1**

[FHV: 1913 B1]

Eenige opmerkingen over het samenhangstype  $\eta$ . *KNAW Versl.* 21, 1412–1419

**also in:** *CW II*, p.396–403.

**submitted:** 25.04.1913      **published:** 09.05.1913

**submitted by:** L.E.J. Brouwer

**reviews:** JFM 44.0556.01, 1913 (publ. 1918). Reviewer: Brouwer.

**1913B2**

[FHV: 1913 B2]

Some remarks on the coherence type  $\eta$ . *Proc. KNAW* 15, p. 1256–1263.

**also in:** *CW II*, 396–404

**remarks:** Autoreferat JFM 44.0556.01, 1913 (publ. 1918)

**submitted:** 25.04.1913      **published:** --.1913

**submitted by:** L.E.J. Brouwer

**1913C** [FHV: 1912 A2]  
Intuitionism and Formalism. *Bull. Am. Math. Soc.*, 20: 81–96.  
**also in:** CW II, 123–138; Benacerraf and Putnam, 1964.  
**remarks:** translated by A. Dresden.

**1914** [FHV: 1914]  
A. Schoenflies und H. Hahn. Die Entwicklung der Mengenlehre und ihrer Anwendungen, Leipzig und Berlin 1913. *Jahresb. D.M.V.*23, p.78–83.  
**also in:** CW I, p.139–144  
**remarks:** Review  
**published:** --.1914

**1915A1** [FHV: 1915 A1]  
Opmerking over inwendige grensverzamelingen. *KNAW Versl.* 23, p.1325–1326.  
**submitted:** 23.04.1915 **published:** 14.05.1915  
**submitted by:** L.E.J. Brouwer  
**reviews:** JFM 45.0128.03, 1914/15 (publ. 1922). Reviewer: Lampe.

**1915A2** [FHV: 1915 A2]  
Remark on inner limiting sets. *KNAW Proc.* 18, p.48–49.  
**also in:** CW II, p.412–413.  
**remarks:** ‘Inner limiting set’ means  $G_\delta$   
**submitted:** 23.04.1915 **published:** 14.05.1915  
**submitted by:** L.E.J. Brouwer

**1915B** [FHV: 1915 B]  
Over de loodrechte trajectoriën der baankrommen eener vlakke eenledige projectieve groep. *Nieuw Archief voor Wiskunde II*, 11 p.265–290.  
**remarks:** [On the orthogonal trajectories of the orbits of a one-parameter plane projective group]. English translation in CW II, p.319–337.  
**published:** --.1915  
**reviews:** JFM 45.0938.01, 1914/15 (publ. 1922). Reviewer: Engel.

**1915C**  
Meetkunde en Mystiek. *De Nieuwe Amsterdammer*, 04.12.1915  
**remarks:** review of “Geometry and Mysticism”, three lectures by Dr. H.A. Naber  
**published:** 04.12.1915

**1916A**

[FHV: 1916 A]

L.E.J. Brouwer, Eenige opmerkingen over het samenhangstypen  $\eta$ . JFM 44.0566.01, p.556, 1914/15 (publ. 1918) .

**also in:** *CW II*, p.405

**remarks:** Author's review of [Brouwer 1913 B1].

**published:** --.1916

**1916B**

[FHV: 1916 B]

É. Borel, Les ensembles de mesure nulle. JFM 44.0556.02, 1914/15 p.556–557 (publ. 1918).

**also in:** *CW II*, p.406–407.

**remarks:** Review

**published:** --.1916

**1916C**

J.I. de Haan, Rechtskundige signfica en haar toepassing op de begrippen: 'aansprakelijk', 'verantwoordelijk', 'toerekeningsvatbaar'. *Groot Nederland*, September 1916, 14, 333–336.

**remarks:** Review. Legal signfics and its application to the notions of 'liability', 'responsibility', 'accountability'.

**published:** --.1916

**1916D**

Mr. Israël de Haan's Rechtskundige Significa. *De Nieuwe Amsterdammer*, 9.9.1916

**published:** 09.09.1916

**1916E**

Een vraag aan de Belgische Regeering. *De Nieuwe Amsterdammer*, 16.9.1916

**published:** 16.09.1916

**1916F**

Luchtvaart en photogrammetrie. *Avia* (6), p. 29–30, 122–124, 223–225

**published:** --.1916

**1916G**

Letter to the editor. *De Nieuwe Amsterdammer* 23.9.1916.

**published:** 23.09.1916.

**1917A1**

[FHV: 1917]

Addenda en corrigenda over de grondslagen der wiskunde. *KNAW Versl.* 25, p.1418–1423;

**also, with minor revisions, in:** Nieuw Archief voor Wiskunde II, 12, p. 439–445. Translation ‘Addenda and corrigenda to On the Foundations of Mathematics’, *CW I*, p.145–149.

**remarks:** Separate sheet with corrections inserted. The ‘Nieuw Archief’-version is complete.

**submitted:** 27.04.1917      **published:** 23.07.1917

**submitted by:** L.E.J. Brouwer

**reviews:** JFM 46.0069.04, 1916/18 (publ. 1923/24), p.69. Reviewer: Szegő.

**1917A2**

[FHV: 1917 A]

Addenda en corrigenda over de grondslagen der wiskunde. *Nieuw Archief voor Wiskunde II*, 12, p.439–445

**also in:** [Brouwer 1981B], [Brouwer 2001]. English translation ‘Addenda and corrigenda to On the Foundations of Mathematics’, *CW I*, p.145–149.

**remarks:** Corrections to KNAW Proc. paper. Refers to Verslagen Ak. 27.4.1917

**submitted:** 27.04.1917      **published:** --.1917

**submitted by:** L.E.J. Brouwer

**1917B1**

[FHV: 1917B1]

Over lineaire inwendige grensverzamelingen. *KNAW Versl.* 25, p. 1424–1426.

**submitted:** 27.04.1917      **published:** 23.07.1917

**submitted by:** L.E.J. Brouwer

**reviews:** JFM 46.0293.01, 1916/1918 (publ. 1923/24). Reviewer: Haalmeijer.

**1917B2**

[FHV: 1917 B2]

On linear inner limiting sets. *KNAW Proc.* 20, p.1192–1194.

**also in:** *CW II*, p.414–415.

**submitted:** 27.04.1917      **published:** --.1917

**submitted by:** L.E.J. Brouwer

**1917C**

Luchtvaart en photogrammetrie. *Het Vliegveld*, 142–144, 165–167.

**published:** --.1917

**1917D**

Antinationalistische Literatuur. *De Nieuwe Amsterdammer*, 3.2.1917

**remarks:** review of articles of F. van Eeden and C. van Bruggen

**published:** 03.02.1917

**1918A** [FHV: 1918 A]  
Vorbereidend Manifest. *Mededeelingen van het Internationaal Instituut voor Wijsbegeerte* I, p.3–12.  
**remarks:** Preparatory Manifesto, with French, German and English translations. With H.P.J. Bloemers, H. Borel and F. van Eeden,  
**published:** --.1918

**1918B** [FHV: 1918 B]  
Begründung der Mengenlehre unabhängig vom logischen Satz vom ausgeschlossenen Dritten. Erster Teil, Allgemeine Mengenlehre. *KNAW Verh. 1e sectie*, deel XII, no.5, p.1–43.  
**also in:** *CW I*, p.151–190.  
**submitted:** 24.11.1917 **published:** --.03.1918  
**reviews:** JFM, see under 1919 D1.

**1918C** [FHV: 1918 C]  
Über die Erweiterung des Definitionsbereichs einer stetigen Funktion. *MA*. 79, p. 209–211.  
**also in:** *CW II*, p.591–593  
**remarks:** Bemerkung, see [Brouwer 1919E]  
**published:** --.1918

**1918D** [FHV: 1918 D]  
Lebesguesches Mass und Analysis Situs. *MA* 79, p.212–222.  
**also in:** *CW II*, p.595–605  
**published:** --.1918  
**reviews:** JFM 46.0292.02, 1916/18 (publ. 1923/24). Reviewer: Rosenthal.

**1918E** [FHV: 1918 E]  
Beweging van een materieel punt op den bodem eener draaiende vaas onder den invloed der zwaartekracht. *Nieuw Archief voor Wiskunde II* 12, p.407–419  
**also in:** *CW II*, p.665–675. Translated as ‘Motion of a particle on the bottom of a rotating vessel under the influence of gravity.’  
**published:** --.1918  
**reviews:** JFM 46.1184.03, 1916/1918 (publ. 1923/24). Reviewer: Schouten.

**1918F**  
Berichtigung. *MA*, 79, 403. (re 1910F).  
**also in:** *CW II*, 449.  
**reviews:** JFM 46.1184.03, 1916/18 (publ. 1923/24). Reviewer: Schouten.

**1918G**  
Vorbereitung van Hoogleeraarsbenoemingen. *De Nieuwe Amsterdammer*, 27.7.1918  
**published:** 27.07.1918

**1918H**

Intuïtieve signfica. *Propria Cures* 9.9.1918

**remarks:** announcement lecture F. van Eeden

**published:** 09.09.1918

**1918J**

Aan de Ned. Burgerij. *De Nieuwe Amsterdammer*, 30.11.1918

**remarks:** Open letter of Committee concerning Troelstra's revolution. Signed by Brouwer and others.

**published:** 30.11.1918

**1918K**

Schreiben des Herrn Dr. Martin Buber in Heppenheim mit Beantwortung. *Mededeelingen van het Internationaal Instituut voor Wijsbegeerte* 1. p.28–30.

**remarks:** Brouwer's reply p. 29–30.

**published:** -.03.18

**1919A**

[FHV: 1919 A]

Begründung der Mengenlehre unabhängig vom logischen Satz vom ausgeschlossenen Dritten. Zweiter Teil, Theorie der Punktmengen, *KNAW Verh. 1e sectie*, deel XII, no.7, p.1–33.

**also in:** *CW I*, p.191–221.

**submitted:** 26.10.1918 **published:** -.1919 **reviews:** JFM, see under 1919 D1.

**1919B**

[FHV: 1919 B]

*Wiskunde, Waarheid, Werkelijkheid*. Noordhoff, Groningen

**remarks:** *Mathematics, Truth, Reality*. Reprint of [Brouwer 1908C], [Brouwer 1909A] and [Brouwer 1912A].

**published:** -.1919

**1919C1**

[FHV: 1919 C]

Signifisch Taalonderzoek. *Mededeelingen van het Intern. Inst. voor Wijsbegeerte* II, p.5–13.

**also in:** Translation ‘Signifische Sprachforschung. Vom Unterschied der Sprachstufen in Bezug auf die soziale Verständigung’ is published in *CW I*, p.222–229

**remarks:** With G. Mannoury, H. Borel and F. van Eeden. German and French translations in same journal, German 13–21; French – “Sémantique philosophique”, 21–29.

**published:** -.03.1919

**1919C2**

[FHV: 1919 C]

Onderscheid der taaltrappen ten aanzien van de sociale verstandhouding. *Mededeelingen van het Intern. Inst. voor Wijsbegeerte* II, p.30–31.

**also in:** Translation ‘Signifische Sprachforschung. Vom Unterschied der Sprachstufen in Bezug auf die soziale Verständigung’ is published in *CW I*, p.222–229

**remarks:** With G. Mannoury, H. Borel and F. van Eeden. German and French translations in same journal, German 31–32; French – “Différence des “degrés” de la langue en rapport avec les relations sociales des hommes”, 32.

**published:** -.03.1919

**1919C3**

Antwort von L.E.J Brouwer. *Mededeelingen van het Intern. Inst. voor Wijsbegeerte* II, p.33–34.

**remarks:** A reply to “Objection of Erich Gutkind”, which preceded the above: “Einwand von Erich Gutkind”, p. 33.

**published:** -.03.1919

**1919D**

[FHV: 1919 D1]

Intuitionistische Mengenlehre. *Jahresb. D.M.V.* 28, p. 203–208.

**also in:** English translation in [Mancosu 1998] p.23–27, French translation in [Largeault 1993] p.183–189.

**remarks:** dated 1920 on reprint

**published:** --.1920

**reviews:** JFM 47.0171.04, 1919/20 (publ. 1924/26). Reviewer: Rosenthal. Joint review of 1918B, 1919A. 1919D.

**1919E**

[FHV: 1919 E]

Nachträgliche Bemerkung über die Erweiterung des Definitionsbereiches einer stetigen Funktion. *MA* 79, p.403.

**also in:** *CW II*, p.593.

**remarks:** refers to [Brouwer 1918C]

**published:** --.1919

**reviews:** JFM 46.0399.03, 1916/1918 (publ. 1923/24), p.399. Reviewer: Rosenthal.

**1919F**

[FHV: 1919 F]

Berichtigung. *MA* 79, p.403.

**also in:** *CW II*, p.249

**remarks:** corrections to [Brouwer 1910 F]

**published:** --.1919

**1919G**

[FHV: 1919 G]

Énumération des surfaces de Riemann régulières de genre un. *CR Paris* 168, p. 677–678, 832

**also in:** *CW II*, p.631–632.

**submitted:** 31.03.1919 **published:** --.1919

**reviews:** JFM 47.0355.03, 1919/20 (publ. 1924/26). Reviewer: Helmer.

**1919G\***

Errata. *CR Paris* 168, p. 832

**also in:** *CW II*, p.633.

**remarks:** corrections to 1919G **published:** --.1919

**1919H**

[FHV: 1919 H]

Énumération des groupes finis de transformations topologiques du tore. *CR Paris* 168, p. 845–848, 1168 and 169, p.552.

**also in:** *CW II*, p.634–638.

**submitted:** 28.04.1919 **published:** --.1919

**reviews:** JFM 1919/20 47.0524.04 (publ. 1924/26). Reviewer: Helmer.

**1919H\***

Errata *CR Paris* 169, p.552, 1168.

**remarks:** corrections to 1919H.

**submitted:** 28.04.1919 **published:** --.1919

**1919J**

[FHV: 1919 J]

Sur les points invariants des transformations topologiques des surfaces. *CR Paris* 168, p. 1042–1044, 169, p.552.

**also in:** *CW II*, p.639–641.

**remarks:** Errata: *CR Paris* 169, p.552.

**submitted:** 26.05.1919 **published:** --.1919

**reviews:** JFM 47.0525.02 1919/20 (publ. 1924/26). Reviewer: Helmer.

**1919J\***

Errata. *CR Paris*, 169, p. 552

**remarks:** Corrections to 1919J.

**submitted:** 26.05.1919 **published:** --.1919

**1919K**

[FHV: 1919 K]

Sur la classification des ensembles fermés situés sur une surface. *CR Paris* 169, p. 953–954.

**submitted:** 24.11.1919 **published:** --.1919

**submitted by:** P. Appell

**1919L1** [FHV: 1919 L1]  
Over één-éénduidige, continue transformaties van oppervlakken in zichzelf, VI. *KNAW Versl.* 27, p. 609–612.  
**submitted:** 30.11.1918      **published:** --.1919  
**submitted by:** L.E.J. Brouwer  
**reviews:** JFM 47.0525.03 1919/20 (publ. 1924/26). Reviewer: Helmer.

**1919L2** [FHV: 1919 L2]  
Über eineindeutige stetige Transformationen von Flächen in sich, VI. *KNAW Proc.* 21, p.707–710.  
**also in:** *CW II*, p.611–615  
**submitted:** 30.11.1918      **published:** --.1919

**1919M1** [FHV: 1919 M1]  
Opmerking over de vlakke translatiestelling. *KNAW Versl.* 27, p.840–841  
**submitted:** 28.12.1918      **published:** --.1919  
**submitted by:** L.E.J. Brouwer  
**reviews:** JFM 47.0524.02 1919/20 (publ. 1924/26). Reviewer: Helmer.

**1919M2** [FHV: 1919 M2]  
Remark on the plane translation theorem. *KNAW Proc.* 21, p.935–936.  
**also in:** *CW II*, p.269–270.  
**submitted:** 28.12.1928      **published:** --.1919  
**submitted by:** L.E.J. Brouwer

**1919N1** [FHV: 1919 N1]  
Over topologische involuties. *KNAW Versl.* 27, p.1202–1203.  
**submitted:** 29.03.1919      **published:** --.1919  
**submitted by:** L.E.J. Brouwer  
**reviews:** JFM 47.0524.03 1919/20 (publ. 1924/26). Reviewer: Helmer.

**1919N2** [FHV: 1919 N2]  
Über topologische Involutionen. *KNAW Proc.* 21, p.1143–1145.  
**also in:** *CW II*, p. 623–625.  
**submitted:** 29.03.1919      **published:** --.1919  
**submitted by:** L.E.J. Brouwer

**1919P1** [FHV: 1919 P1]  
Opsomming der periodieke transformaties van de torus. *KNAW Versl.* 27, p. 1363–1367.  
**submitted:** 03.05.1919      **published:** --.1919  
**submitted by:** L.E.J. Brouwer  
**reviews:** JFM 47.0525.01 1919/20 (publ. 1924/26). Reviewer: Helmer.

**1919P2** [FHV: 1919 P2]  
Aufzählung der periodischen Transformationen des Torus. *KNAW Proc.* 21, p. 1352–1356.  
**also in:** *CW II*, p.626–630.  
**submitted:** 03.05.1919 **published:** --.1919  
**submitted by:** L.E.J. Brouwer

**1919Q1** [FHV: 1919 Q1]  
Opmerking over meervoudige integralen. *KNAW Versl.* 28, p.116–120.  
**submitted:** 28.06.1919 **published:** --.1919  
**submitted by:** L.E.J. Brouwer  
**reviews:** JFM 47.0906.03 1919/20 (publ. 1924/26). Reviewer: Müntz.

**1919Q2** [FHV: 1919 Q2]  
Remark on multiple integrals. *KNAW Proc.* 22, p.150–154.  
**also in:** *CW II*, p.49–53.  
**submitted:** 28.06.1919 **published:** --.1919

**1919R** [FHV: 1919 R]  
Luchtvaart en photogrammetrie, I. *Nieuw Tijdschrift voor Wiskunde* 7, p.311–331.  
**remarks:** based on texts from Avia (1916) and Het Vliegveld (1917) Drawings by Wijdenes.  
**published:** --.1919  
**reviews:** JFM 47.0547.02, 1919/20 (publ. 1924/26). Reviewer: Van der Woude.

**1919S** [FHV: 1919 S]  
Über die periodischen Transformationen der Kugel. *MA* 80, p.39–41.  
**also in:** *CW II*, p.620–622.  
**remarks:** sequel to paper of Nielsen, *MA* 80, 36–38. Proofs received from Klein 12.09.1919  
**published:** --.1919  
**reviews:** JFM 47.0527.01 (publ. 1924/26). Reviewer: Tietze.

**1919T**  
hoogleeraarsbenoemingen. *De Nieuwe Amsterdammer*, 1.2.1919  
**published:** 01.02.1919

**1919U**  
Corrections. *Bull. Am. Math. Soc.*, 135  
**remarks:** refers to ‘Intuitionism and Formalism’ [Brouwer 1912A]  
**published:** --.1919

**1920A1**

[FHV: 1920 A1]

Over de structuur van perfecte puntverzamelingen, III. *KNAW Versl.* 28, p. 373–375.

**remarks:** handwritten corrections, p.374

**submitted:** 25.10.1919 **published:** --.1920

**submitted by:** L.E.J. Brouwer

**reviews:** JFM 47.0178.04, 1919/1920 (publ. 1924/1926). Reviewer: Helmer.

**1920A2**

[FHV: 1920 A2]

Über die Struktur der perfekten Punktmengen, III. + Erratum. *KNAW Proc.* 22, p.471–474, 974.

**also in:** *CW II*, p.643–646.

**submitted:** 25.10.1919 **published:** --.1920

**submitted by:** L.E.J. Brouwer

**1920A2\***

Erratum. *Proc. KNAW* 22, p.974

**remarks:** correction to 1920A2

**published:** --.1920

**1920B1**

[FHV: 1920 B1]

Over één-éénduidige, continue transformaties van oppervlakken in zichzelf, VII. *KNAW Versl.* 28, p.1186–1190.

**remarks:** Erroneously numbered VI. Erratum in same volume.

**submitted:** 27.03.1920 **published:** --.1920

**submitted by:** L.E.J. Brouwer

**reviews:** JFM 47.0525.05, 1919/1920 (publ. 1924/1926). Reviewer: Helmer.

**1920B2**

[FHV: 1920 B2]

Über eineindeutige, stetige Transformationen von Flächen in sich, VII. *KNAW Proc.* 22, p.811–814.

**also in:** *CW II*, p.647–651

**remarks:** Erroneously numbered VI

**submitted:** 26.6.1920 **published:** 16.12.1920

**submitted by:** Brouwer

**reviews:** JFM 47.0526.02, 1919/20 (publ. 1924/26). Reviewer: Helmer.

**1920C**

[FHV: 1920 C]

Énumération des classes de transformations du plan projectif. *CR Paris* 170, p. 834–835, 1295.

**remarks:** corrections in Brouwer's copy

**submitted:** 06.04.1920 **published:** --.1920

**submitted by:** P. Appell

**reviews:** JFM 47.0525.04, 1919/1920 (publ. 1924/1926). Reviewer: Helmer.

**1920D** [FHV: 1920 D]  
Énumération de classes de représentations d'une surface sur une autre surface.  
*CR Paris* 171, p.89–91, 830.  
**submitted:** 12.07.1920 **published:** --.1920  
**submitted by:** P. Appell  
**reviews:** JFM 47.0526.01, 1919/20 (publ. 1924/26). Reviewer: Helmer.

**1920E** [FHV: 1920 E]  
Über die Minimalzahl der Fixpunkte bei den Klassen von eindeutigen stetigen  
Transformationen der Ringflächen. *MA* 82, p.94–96.  
**also in:** *CW II*, p.652–654.  
**submitted:** 20.01.1920 **published:** --.1920  
**reviews:** JFM 47.0528.01, 1919/20 (publ. 1924/26). Reviewer: Tietze.

**1920F** [FHV: 1920 F]  
Luchtvaart en photogrammetrie, II. *Nieuw Tijdschrift voor Wiskunde* 8, p.300–  
307.  
**remarks:** sequel to 1919R  
**published:** --.1920  
**reviews:** JFM 48.0678.02, 1921/22 (publ. 1925/28). Reviewer: Van der Woude.

**1920G1** [FHV: 1920 G1]  
Over één-éénduidige, continue transformaties van oppervlakken in zichzelf, VIII.  
*KNAW Versl.* 29, p.640–642.  
**remarks:** erroneously numbered VII  
**published:** --.1920  
**reviews:** JFM 47.0526.02, 1919/1920 (publ. 1924/1926). Reviewer: Helmer.

**1920G2** [FHV: 1920 G2]  
Über eineindeutige, stetige Transformationen von Flächen in sich, VIII. *KNAW  
Proc.* 23, p.232–234.  
**remarks:** erroneously numbered VII; cf. *CW II*, p.536  
**submitted:** 26.06.1920 **published:** --.1920  
**submitted by:** L.E.J. Brouwer

**1920H**  
DE NIEUWE AMSTERDAMMER. *De Nieuwe Amsterdammer*, 1920

**1920K**  
Letter to the members of the Mathematics and Physics section of the KNAW.  
**remarks:** defence of candidacy of Denjoy for KNAW.  
**published:** 27.3.1920

**1921A** [FHV: 1921 A]  
Besitzt jede reelle Zahl eine Dezimalbruchentwicklung? *MA* 83; p.201–210.  
**remarks:** Talk at Naturforscherversammlung Nauheim 22.9.1920  
**submitted:** 10.12.1920.  
**also in:** *KNAW Versl.*(submitted 18.12.1920) 29, p.803–812; *KNAW Proc.* 23, p.955–964; *CW I*, p.236–245. English translation in [Mancosu 1998] p.28–35.  
**published:** --.1921  
**reviews:** JFM 48.0062.01 (publ. 1925/28). Reviewer: Rosenthal.

**1921C** [FHV: 1921 C]  
Opmerking over de bepaling van alle complexe functies, voor welke  $f(z) = \varphi(|z|)$  is. *Christiaan Huygens* 1, p.352–354.  
**published:** --.1921  
**reviews:** JFM 48.0397.02, 1921/22 (publ. 1925/28). Reviewer: Neder.

**1921D** [FHV: 1921 D]  
Aufzählung der Abbildungsklassen endlichfach zusammenhängender Flächen. *MA* 82, p. 280–286.  
**also in:** *CW II*, p.655–661.  
**submitted:** 03.07.1920      **published:** --.1921  
**reviews:** JFM 48.0649.01, 1921/22 (publ. 1925/28). Reviewer: Tietze.

**1921E** [FHV: 1921 E]  
Berichtigung. *MA* 82, p.286.  
**also in:** *CW II*, p.474  
**remarks:** refers to [Brouwer 1911D]  
**published:** --.1921

**1921G**  
Sovjet wetten. *Nieuwe Kroniek* 1 (1921), p.2–3  
**remarks:** review  
**published:** --.1921

**1921H**  
Wis- en Natuurkunde en Wijsbegeerte. *Nieuwe Kroniek*, 18.6.1921, p.1–2  
**published:** 18.6.1921

**1921J** [FHV: 1919 D2]  
Intuitionistische verzamelingsleer. *KNAW Versl.* 29 (1921), p. 797–802.  
**submitted:** 18.12.1920      **published:** --.1921  
**submitted by:** L.E.J. Brouwer  
**reviews:** JFM 48.0202.01, 1921/22 (publ. 1925/28). Reviewer: Rosenthal.

**1922A** [FHV: 1919 D1]  
Intuitionistische Mengenlehre. *KNAW Proc.* 23, p.949–954.  
**also in:** *CW I*, p.230–235.  
**submitted:** 18.12.1920      **published:** --.1922

**1922B**  
Wis- en Natuurkunde en Wijsbegeerte. *Nieuwe Kroniek*, 11.2.1922, p. 3–5  
**published:** 11.2.1922

**1922C**  
Wetenschap, humaniteit, Frankrijk en Nederland ?  
**published:** --.1922

**1922D**  
Schrijven van Dr. L.E.J. Brouwer aan Zijne Excellentie den Minister van Onderwijs, Kunsten en Wetenschappen. Open letter to minister of education.  
**remarks:** on position of Denjoy. Contains documentation.  
**published:** 27.09.1922

**1923A** [FHV: 1923 A]  
Begründung der Funktionenlehre unabhängig vom logischen Satz vom ausgeschlossenen Dritten. Erster Teil, Stetigkeit, Messbarkeit, Derivierbarkeit. *KNAW Verh. 1e sectie*, deel XIII, no.2, p.1–24.  
**also in:** *CW I*, p.246–267.  
**remarks:** proofs 12.11.1923.      **published:** --.1923

**1923B** [FHV: 1923 B1]  
Over de rol van het principium tertii exclusi in the wiskunde, in het bijzonder in de functietheorie. *Wis- en Natuurkundig Tijdschrift* 2, p.1–7.  
**remarks:** lecture at XXII Vlaamsch Natuur- en Geneeskundig Congres, Antwerpen 1923  
**published:** --.1923

**1923B3** [FHV: 1923 B3]  
Die Rolle des Satzes vom ausgeschlossenen Dritten in der Mathematik. *Jahresb. D.M.V.* 32, p.67.  
**remarks:** Summary of [Brouwer 1924N]. Talk at Marburg DMV meeting at Marburg, 21.9.1923  
**published:** --.1923

**1923C1**

[FHV: 1923 C1]

Intuitionistische splitsing van wiskundige grondbegrippen. *KNAW Versl.* 32, p.877–880.

**also in:** English translation in [Mancosu 1998] p.286–289.

**submitted:** 24.11.1923 **published:** --.1923

**reviews:** JFM 49.0030.02, 1923 (publ. 1927/28). Reviewer: Fraenkel.

**1923D1**

[FHV: 1923 D1]

Over het natuurlijke dimensiebegrip. *KNAW Versl.* 32, p. 881–886

**remarks:** translation of 1913 plus additional correction (Urysohn's remark) and footnote

**submitted:** 24.11.1923 **published:** --.1923

**reviews:** JFM 49.0140.04, 1923 (publ. 1927/28), p.140–141. Reviewer: Fraenkel.

**1923D2**

[FHV: 1923 D2]

Über den natürlichen Dimensionsbegriff. *KNAW Proc.* 26, p.795–800.

**remarks:** Revised edition of [Brouwer 1913A]

**published:** --.1923

**1923E**

Unberücksichtigt gebliebenes Schreiben von Dr. L.E.J. Brouwer an Seine Exzellenz den Minister für Unterricht Kunst und Wissenschaft vom 27. September 1922. Symptomatisches zu einer Gefährdung der niederländischen Staatshoheit. 24 pages.

**remarks:** German version of [Brouwer 1922D] with a four-page appendix.

**published:** --.1923

**1924A1**

[FHV: 1924 A1]

Over de toelating van oneindige waarden voor het functiebegrip. *KNAW Versl.* 33, p.41.

**published:** --.1924

**reviews:** JFM 50.0146.03, 1924 (publ. 1928/29). Reviewer: Van der Corput.

**1924A2**

[FHV: 1924 A2]

Ueber die Zulassung unendlicher Werte für den Funktionsbegriff. *KNAW Proc.* 27, p.248.

**also in:** *CW I*, p.281.

**submitted:** 26.01.1924 **published:** --.1924

**1924B1**

[FHV: 1924 B1]

Perfekte puntverzamelingen met positief irrationale afstanden. *KNAW Versl.* 33, p.81.

**published:** --.1924

**1924B2**

[FHV: 1924 B2]

Perfect sets of points with positive-irrational distances. *KNAW Proc.* 27, p. 487.

also in: *CW I*, p.282.

submitted: 23.02.1924 published: --.1924

reviews: JFM 50.0132.03,1924 (publ. 1928/29). Reviewer: Van der Corput.

**1924C1**

[FHV: 1924 C1]

(With B. de Loor) Intuitionistisch bewijs van de hoofdstelling der algebra. *KNAW Versl.* 33, p. 82–84.

submitted: 23.02.1924 published: --.1924

reviews: JFM 50.0037.01, 1924 (publ. 1928/29), p.30–31. Reviewer: Fraenkel.

**1924C2**

[FHV: 1924 C2]

(With B. de Loor) Intuitionistischer Beweis des Fundamentalsatzes der Algebra. *KNAW Proc.* 27, 186–188.

also in: *CW I*, p. 283–285.

submitted: 23.02.1924 published: --.1924

**1924D1**

[FHV: 1924 D1]

Bewijs dat iedere volle functie gelijkmatig continu is. *KNAW Versl.* 33, p. 189–193

published: --.1924

**1924D2**

[FHV: 1924 D2]

Beweis dass jede volle Funktion gleichmässig stetig ist. *KNAW Proc.* 27, p. 189–193

also in: *CW I*, p.286–290. English translation in [Mancosu 1998] p.36–39. French translation in [Largeault 1992]

submitted: 29.03.1924 published: --.1924

**1924E1**

[FHV: 1924 E1]

Intuitionistische aanvulling van de hoofdstelling der algebra. *KNAW Versl.* 33, p.459–462.

published: --.1924

**1924E2**

[FHV: 1924 E2]

Intuitionistische Ergänzung des Fundamentalsatzes der Algebra. *KNAW Proc.* 27 p.631–634.

remarks: *CW I*, p.291–294.

submitted: 31.03.1924 published: --.1924

**1924F1**

[FHV: 1924 F1]

Bewijs van de onafhankelijkheid van de onttrekkingsrelatie van de versmeltingsrelatie. *KNAW Versl.* 33, p.479–480.

**submitted:** 28.06.1924    **published:** --.1924

**reviews:** JFM 50.0127.02, 1924 (publ. 1928/29), p.127. Reviewer: Fraenkel.

**1924G1**

[FHV: 1924 G1]

Opmerkingen aangaande het bewijs der gelijkmatige continuïteit van volle functies. *KNAW Versl.* 33, p.646–648.

**published:** --.1924

**reviews:** JFM 50.0147.02,1924 (publ. 1928/29). Reviewer: Van der Corput.

**1924G2**

[FHV: 1924 G2]

Bemerkungen zum Beweise der gleichmässigen Stetigkeit voller Funktionen. *KNAW Proc.* 27, p.644–646.

**also in:** *CW I*, p.298–300. French translation in [Largeault 1992]

**submitted:** 27.09.1924    **published:** --.1924

**1924J1**

[FHV: 1924 J1]

Opmerkingen over het natuurlijk dimensiebegrip. *KNAW Versl.* 33, p.476–478.

**published:** --.1924

**reviews:** JFM 50.0127.03, 1924 (publ. 1928/29), p.127–128. Reviewer: Fraenkel.

**1924J2**

[FHV: 1924 J2]

Bemerkungen zum natürlichen Dimensionsbegriff. *KNAW Proc.* 27, p.635–638  
**also in:** *CW II*, p. 554–557.

**remarks:** Immediately followed by Menger's *Ueber die Dimension von Punktmengen*; jointly printed in one preprint. Also a single preprint of Brouwer's paper.

**submitted:** 28.06.1924

**published:** --.1924

**reviews:** JFM 50.0127.03, 1924 (publ. 1928/29), p.127–128. Reviewer: Fraenkel.

**1924K1**

[FHV: 1924 K1]

Over de  $n$ -dimensionale simplex ster in  $R_n$ . *KNAW Versl.* 33, p.1008–1010.

**submitted:** 27.12.1924    **published:** --.1924

**submitted by:** L.E.J. Brouwer

**1924K2**

[FHV: 1924 K2]

On the  $n$ -dimensional simplex star in  $R_n$ . *KNAW Proc.* 27, p.778–780.

**also in:** *CW II*, 606–608.

**published:** 17.12.1924

**1924L** [FHV: 1924 L]  
Zum natürlichen Dimensionsbegriff. *Mathematische Zeitschrift* 21, p.312–314.  
**submitted:** 16.06.1924  
**published:** --.1924  
**reviews:** JFM 50.0128.02, 1924 (publ. 1928/29), p.128. Reviewer: Fraenkel.

**1924M** [FHV: 1924 M]  
Berichtigung. *Journ. r. u. ang. Math.* 153, p.253.  
**also in:** *CW II*, p. 553  
**remarks:** refers to [Brouwer 1913A].  
**published:** 06.03.1924  
**reviews:** JFM 50.0128.02, 1924 (publ. 1928/29), p.128. Reviewer: Fraenkel.

**1924N** [FHV: 1923 B2]  
Über die Bedeutung des Satzes vom ausgeschlossenen Dritten in der Mathematik insbesondere in der Funktionentheorie. *Journ. r. u. angew. Mat.* 154, p.1–7.  
**also in:** *CW I*, p.268–274. English translation, ‘On the Significance of the principle of the excluded middle in mathematics, especially in function theory’, in [Heijenoort 1967], p.334–341. French translation in [Largeault 1992].  
**remarks:** lecture at Annual meeting DMV, September 1923.  
**published:** --.1923  
**reviews:** JFM 50.0146.02, 1924 (publ. 1928/29), p.146. Reviewer: Fraenkel.

**1925A** [FHV: 1925 A]  
Zur Begründung der intuitionistischen Mathematik, I. *MA* 93, p. 244–257.  
**also in:** *CW I* p.301–314.  
**remarks:** correction in 1926A. Reprints with extensive handwritten emendations.  
**submitted:** 20.06.1924    **published:** --.1925  
**reviews:** JFM 51.0164.02, 1925 (publ. 1932). Reviewer: Rosenthal.

**1925B1** [FHV: 1925 B1]  
Intuitionistischer Beweis des Jordanschen Kurvensatzes. *KNAW Proc.* 28, p.503–508.  
**also in** *CW I*, p.315–320.  
**submitted:** 27.06.1925  
**published:** --.1925  
**reviews:** JFM 51.0459.02, 1925 (publ. 1932), p.459. Reviewer: Freudenthal.

**1925B2** [FHV: 1925 B2]  
Intuitionistisch bewijs van de krommenstelling van Jordan. *KNAW Versl.* 34, p.657.  
**remarks:** Summary of [Brouwer 1925B]  
**published:** --.1925

**1925C**

[FHV: 1925 C]

Rapport over de verhandeling van P. Urysohn ‘Mémoire sur les multiplicités cantoriennes. Deuxième partie : les lignes cantoriennes’. [With R. Weitzenböck and H. de Vries]. *KNAW Versl.* 34, p.516–517

**published:** --.1925**reviews:** JFM 51.0451.04, 1925 (publ. 1932). Reviewer: Van der Corput.**1925D**

[FHV: 1924 H]

Zuschrift an dem Herausgeber. *Jahresb. D.M.V.*33, p.124

**remarks:** remark on report of Behmann’s talk at Marburg meeting DMV**published:** --.1924**reviews:** JFM 51.0045.01, 1925 (publ. 1932), p.45. Reviewer: Freudenthal.**1925E**

[FHV: 1923 C2]

Intuitionistische Zerlegung mathematischer Grundbegriffe. *Jahresb. D.M.V.* 33 (1925), p.251–256

**also in** English translation in [Mancosu 1998] p.290–292, *CW I*, p.275–280.

French translation in [Largeault 1992]

**submitted:** 06.02.1924 **published:** --.1925**remarks:** content of talk at KNAW 24.11.1923.**reviews:** JFM 51.0047.06, 1925 (publ. 1932). Reviewer: Rosenthal.**1926A**

[FHV: 1926 A]

Zur Begründung der intuitionistischen Mathematik, II. *MA* 95, p. 453–472.

**also in:** *CW I*, p.321–340.**remarks:** reprint dated 1925. Contains Berichtigung to part I**submitted:** 14.03.1925 **published:** --.1925**reviews:** JFM 51.0164.02, 1925 (publ. 1932). Reviewer: Rosenthal.**1926B1**

[FHV: 1926 B1]

Intuitionistische invoering van het dimensiebegrip. *KNAW Versl.* 35, p.634–642.

**published:** --.1926**reviews:** JFM 52.0589.02 (publ. 1935), p.589–590. Reviewer: Freudenthal.**1926B2**

[FHV: 1926 B2]

Intuitionistische Einführung des Dimensionsbegriffes. *KNAW Proc.* 29, p.855–873.

**also in:** *CW I*, p.341–349.**submitted:** 29.05.1926 **published:** --.1926**reviews:** JFM 52.0589.02 (publ. 1935), p.589–590. Reviewer: Freudenthal.

**1926C1** [FHV: 1926 C1]  
De intuïtionistische vorm van het theorema van Heine-Borel. *KNAW Versl.* 35, p.667–668.  
**published:** --.1926  
**reviews:** JFM 52.0198.03, 1926 (publ. 1935). Reviewer: Freudenthal.

**1926C2** [FHV: 1926 C2]  
Die intuïtionistische Form des Heine-Borelschen Theorems. *KNAW Proc.* 29, p.866–867.  
**also in:** *CW I*, p.350–351.  
**submitted:** 26.06.1926  
**reviews:** JFM 52.0198.03, 1926 (publ. 1935). Reviewer: Freudenthal.

**1926D1** [FHV: 1926 D1]  
Over transformaties van projectieve ruimten. *KNAW Versl.* 35, p.643–644.  
**submitted:** 29.05.1926  
**published:** --.1926  
**reviews:** JFM 52.0574.03, 1926 (publ. 1935), p.574. Reviewer: Grunsky.

**1926D2** [FHV: 1926 D2]  
On transformations of projective spaces. *KNAW Proc.* 29, p.864–865.  
**also in:** *CW II*, p.475–476.  
**submitted:** 29.05.1926      **published:** --.1926  
**reviews:** JFM 52.0574.03, 1926 (publ. 1935), p.574. Reviewer: Grunsky.

**1926E**  
Rapport omtrent de ter opening in de werken der Akademie aangeboden verhandeling van P. Alexandroff en P. Urysohn ‘Mémoire sur les espaces topologiques compacts’. [With R. Weitzenböck and H. de Vries] *KNAW Versl.* 35.  
**published:** --.1926

**1927A** [FHV: 1927 A]  
Zur Begründung der intuïtionistischen Mathematik, III. *MA* 96, p.451–488.  
**also in:** *CW I*, p.352–389.  
**remarks:** reprint dated 1926  
**submitted:** 28.11.1925  
**reviews:** JFM 52.0193.01, 1926 (publ. 1935), p.45. Reviewer: Grunsky.

**1927B**

[FHV: 1927 B]

Über Definitionsbereiche von Funktionen. *MA* 97, p.60–75.**also in:** *CW I*, p.390–405. [English translation 'On the domains of definition of functions' (§1–3) in [Heijenoort 1967], p.446–463]. French translation in [Largeault 1992]**remarks:** reprint dated 1926. Brouwer lecture at Düsseldorf meeting DMV, 23.9.1926, 'Ueber Definitionsbereiche von Funktionen'**submitted:** 28.04.1926 **published:** --.1927**reviews:** JFM 52.0239.01, 1926 (publ. 1935). Reviewer: Freudenthal.**1927C**

[FHV: 1927 C]

Virtuelle Ordnung und unerweiterbare Ordnung. *Journ. r. u. angew. Math.* 157, p. 255–257.**also in** *CW1*, p.406–408.**published:** --.1927**reviews:** JFM 53.0040.01, 1927 (publ. 1931), p.40. Reviewer: Freudenthal.**1927D**

[FHV: 1924 F2]

Zur intuitionistischen Zerlegung mathematischer Grundbegriffe. *Jahresb. D.M.V.* 36 (1927), p.127–129.**also in:** English translation in [Mancosu 1998] p.293–295, *CW I* p.295–297.**submitted:** 18.10.1926 **published:** --.1927**reviews:** 53.0039.02 (publ. 1931). Reviewer: Freudenthal.**1928A1**

[FHV: 1928 A1]

Intuitionistische Betrachtungen über den Formalismus. *KNAW Versl.* 36, p.1189.**remarks:** Summary of [Brouwer 1928 A2]**submitted:** 16.02.1928 **published:** --.1928**1928A2**

[FHV: 1928 A2]

Intuitionistische Betrachtungen über den Formalismus. *KNAW Proc.* 31, p.374–379**also in:** English translation in [Mancosu 1998] p.40–44, of §1 in [Heijenoort 1967], p.490–492. Italian translation in [Mangione-Franchella 1993], p.123–126. French translation in [Largeault 1992]**submitted:** 17.12.1927 **published:** --.1928**reviews:** JFM 54.0053.01, 1928 (publ. 1932). Reviewer: Freudenthal.

**1928A3** [FHV: 1928 A2]  
Intuitionistische Betrachtungen über den Formalismus. *Sitzungsberichte der Preussischen Akademie der Wissenschaften zu Berlin* 1928, p.48–52.  
**submitted:** 16.02.1928 **published:** 05.05.1928  
**submitted by:** L. Bieberbach  
**reviews:** JFM 54.0053.01, 1928 (publ. 1932). Reviewer: Freudenthal.

**1928B1** [FHV: 1928 B1]  
Beweis dass jede Menge in einer individualisierten Menge enthalten ist. *KNAW Versl.* 36, p.1189.  
**remarks:** Summary of [Brouwer 1928 B2]  
**published:** --.1928  
**reviews:** JFM 54.0053.02, 1928 (publ. 1932), p.53. Reviewer: Freudenthal.

**1928B2** [FHV: 1928 B2]  
Beweis dass jede Menge in einer individualisierten Menge enthalten ist. *KNAW Proc.* 31, p.380–381  
**also in:** *CW I*, p.415–416.  
**submitted:** 17.12.1927 **published:** --.1928

**1928C1** [FHV: 1928 C1]  
Zur Geschichtsschreibung der Dimensionstheorie. *KNAW Versl.* 37, p.626.  
**remarks:** Summary and announcement of [Brouwer 1928 C2]  
**published:** --.1928

**1928C2** [FHV: 1928 C2]  
Zur Geschichtsschreibung der Dimensionstheorie. *KNAW Proc.* 31, p. 953–957.  
**also in:** *CW II*, p.559–563.  
**submitted:** 29.10.1928 **remarks:** Corrigendum in *KNAW Proc.* 32.  
**published:** --.1928  
**reviews:** JFM 54.0007.03, 1928 (publ. 1932). Reviewer: Feigl.

**1929A** [FHV: 1929]  
Mathematik, Wissenschaft und Sprache. *Monatshefte für Mathematik und Physik* 36, p.153–164.  
**also in:** English translation in [Mancosu 1998] p.45–53, *CW I*, p.417–428.  
French translation in [Largeault 1992]  
**remarks:** talk 10.3.1928 Vienna  
**published:** --.1929  
**reviews:** JFM 55.0028.04, 1929 (publ. 1932), p.28. Reviewer: Freudenthal.

**1929B**

Herinnering aan C.S. Adama van Scheltema. *Ter herdenking van C.S. Adama van Scheltema*. Em. Querido, Amsterdam, p.69

**published:** --.1929

**1929C**

Erratum. *KNAW Proc.* 32, p. 1022

**remarks:** corrections to [Brouwer 1928 C2]

**published:** --.1929

**1930A**

[FHV: 1930 A]

*Die Struktur des Kontinuums*. Wien 1930 [Sonderabdruck].

**also in:** English translation in [Mancosu 1998] p.54-64, *CW I*, p.429-440.

French translation in [Largeault 1992]

**remarks:** talk 14.3.1928 Vienna

**remarks:** Lecture in Vienna 14.3.1928.

**published:** -.10.1930

**reviews:** JFM 56.0083.01, 1930 (publ. 1933). Reviewer: Freudenthal.

**1930B**

[FHV: 1930 B]

A. Fraenkel, Zehn Vorlesungen über die Grundlegung der Mengenlehre. *Jahresb. D.M.V.* 39, p.10-11.

**also in:** *CW I*, p.441-442.

**remarks:** Review

**published:** --.1930

**1931**

[FHV: 1931 ]

Ueber freie Umschliessungen im Raume. *KNAW Proc.* 34, p.100-101

**also in:** *CW II*, p.507-508.

**submitted:** 31.01.1931 **published:** --.1931

**reviews:** JFM 57.0745.03, 1931 (publ. 1938/39). Reviewer: Feigl; *Zbl.* 0001.29304 (1931), p.293. Reviewer: Grell; *Math. Rev.* 1-46. Reviewer: Hurewicz.

**1933A1**

[FHV: 1933]

Willen, Weten, Spreken. *Euclides* 9, p.177-193.

**also in:**1933B. English translation 'Will, Knowledge and Speech' in [Van Stigt 1990], appendix 5. Partial translation 'Volition, Knowledge, Language' in *CW I*, p.443-446.

**remarks:** Lecture at Amsterdam University 12.12.1932

**published:** --.1933

**reviews:** JFM 59.0055.08, 1933 (publ. 1934), p.55. Reviewer: Feigl.

**1933A2** [FHV: 1933]  
Willen, Weten, Spreken. In *De uitdrukkingwijze der wetenschap, kennistheoretische voordrachten, gehouden aan de Universiteit van Amsterdam*. Eds. L.E.J. Brouwer, J. Clay, et al. Amsterdam, 1933, p.43–63.  
**remarks:** Lecture at Amsterdam University 12.12.1932  
**published:** --.1933

**1934** [FHV: 1934]  
Erratum. *Euclides*, 11  
**remarks:** re ‘Willen, Weten, Spreken’  
**published:** --.1934

**1937** [FHV: 1937]  
Signifische dialogen [With F. van Eeden, J. van Ginneken and G. Mannoury]. *Synthese* 2, p.168–174, p.261–268 and p. 316–324.  
**also in:** Signifische Dialogen. Erven Bijleveld, Utrecht, 1939, p.65. Translation of selections in *CW I*, p.447–452.  
**published:** --.1937

**1939A** [FHV: 1939 A]  
Zum Triangulationsproblem. *Indag. Math.* I, p. 248–253.  
**also in:** KNAW Proc. 42, p.701–706. *CW I*, p.453–458.  
**remarks:** talk at WG 24.4.1937  
**submitted:** 30.09.1939 **published:** --.1939  
**reviews:** JFM 65.0866.02, 1939 (publ. 1941), p.867. Reviewer: Kneser; *Zbl.* 0022.17201 (1940), p.172. Reviewer: Alexits.

**1939B**  
Theodor Vahlen zum 70. Geburtstag. *Forschungen und Fortschritte* 15, p.238–239.  
**published:** --.1939

**1941A**  
D.J. Korteweg<sup>†</sup> *Euclides*, 17, 266–267 **remarks:** funeral oration 13.V.1941

**1941B**  
D.J. Korteweg [Obituary]. *KNAW Verh.* p.266–267.  
**published:** --.1941

**1942A**

[FHV: 1942 A]

Zum freien Werden von Mengen und Funktionen. *Indag. Math.* 4, p.107–108.

**also in:** KNAW Proc. 45, p.322–323. *CW I*, p.459–460.

**submitted:** 28.03.1942 **published:** --.1942

**reviews:** JFM 68.0101.0, 1942, (publ. 1944). Reviewer: Schmidt; *Zbl.* 0027.04906 (1943), p.49. Reviewer: Schmidt; *Math. Rev.* 6–31. Reviewer: Weyl.

**1942B**

[FHV: 1942 B]

Die repräsentierende Menge der stetigen Funktionen des Einheitskontinuums. *Indag. Math.* 4, p.154.

**also in:** KNAW Proc. 45, p.443. *CW I*, p.461.

**submitted:** 25.04.1942 **published:** --.1942

**reviews:** JFM 68.0101.03, 1942 (publ. 1944). Reviewer: Hornich; *Zbl.* 0027.04907 (1943), p.49. Reviewer: Schmidt; *Math. Rev.* 6–31. Reviewer: Weyl.

**1942C**

[FHV: 1942 C]

Beweis dass der Begriff der Mengen höherer Ordnung nicht als Grundbegriff der intuitionistischen Mathematik in Betracht kommt. *Indag. Math.* 4, p.274–276.

**also in:** KNAW Proc. 45, p.791–793. *CW I*, p.462–464.

**submitted:** 26.09.1942 **published:** --.1942

**reviews:** JFM 68.0101.02, 1942 (publ. 1944). Reviewer: Schmidt; *Zbl.* 0027.30001 (1943), p.300. Reviewer: Schmidt; *Math. Rev.* 6–31. Reviewer: Weyl.

**1946A**

[FHV: 1946 A]

Synopsis of the Signific Movement in the Netherlands. *Synthese* 5, p.201–208.

**also in:** *CW I*, p.465–471.

**published:** --.1946

**1946B1**

Toespraak van Prof.Dr. L.E.J. Brouwer en antwoord van Prof.Dr. G. Mannoury *Jaarboek der Universiteit van Amsterdam 1946–1947*.

**remarks:** Address 16.9.1946

**published:** --.1946

**1947A**

[FHV: 1946 B]

Address delivered on September 16th, 1946, on the conferment upon Professor G. Mannoury of the honorary degree of Doctor of Science. *Jaarboek der Universiteit van Amsterdam 1946–1947*.

**also in** *CW I*, 472–476.

**published:** -.03.1947

**1947B**

[FHV: 1947]

Richtlijnen der intuïtionistische wiskunde. *Indag. Math.* 9, p.197.

**also in** KNAW Proc. 50, p.339. English translation ‘Guidelines of intuitionistic mathematics’ in *CW I*, p.477. French translation in [Largeault 1992].

**submitted:** 29.03.1947 **published:** --.1947

**reviews:** *Zbl.* 0035.14813 (1950), p.148. Reviewer: Schmidt; *Math. Rev.* 8–430.

**1948A**

[FHV: 1948 A]

Essentieel negatieve eigenschappen. *Indag. Math.* 10, p.322–323.

**also in** KNAW Proc. 51, p.963–964. English translation ‘Essentially negative properties’ in *CW I*, p.478–479. French translation in [Largeault 1992].

**submitted:** 25.09.1948 **published:** --.1948

**reviews:** *Math. Rev.* 10–421. Reviewer: Heyting.

**1948B**

[FHV: 1948 B]

Opmerkingen over het beginsel van het uitgesloten derde en over negatieve asserties. *Indag. Math.* 10, p.383–387.

**also in:** KNAW Proc. 51, p.1239–1244.

**submitted:** 27.11.1948 **published:** --.1948

**reviews:** *Math. Rev.* 10–421. Reviewer: Heyting.

**1948C**

Discussion. Following ‘Les conceptions mathématiques et le reel’ van Gonsseth. *Symposium de l’Institut des Sciences théoriques. Bruxelles 1947. Actualités scientifiques et Industrielles, Paris. Hermann 1948.* p. 31–60.

**remarks:** see also p. 56–58

**published:** --.1948

**1949A**

[FHV: 1949 A]

De non-aequivalentie van de constructieve en negatieve orderrelatie in het continuum. *Indag. Math.* 11, p.37–39.

**also in:** KNAW Proc. 52, p.122–124. English translation ‘The non-equivalence of the constructive and negative order relation on the continuum’ in *CW I*, p.495–496.

**submitted:** 29.01.1949 **published:** --.1949

**reviews:** *Math. Rev.* 10–499. Reviewer: Heyting.

**1949B** [FHV: 1949 B]  
Contradictoriteit der elementaire meetkunde. *Indag. Math.* 11, p.89–90.  
**also in:** KNAW Proc. 52, p.315–316. English translation ‘Contradictority of elementary geometry’ in *CW I*, p. 497–498.  
**submitted:** 26.03.1949 **published:** –.–.1949  
**reviews:** *Zbl.* 0037.21511 (1951), p.215 Reviewer: Bachmann. *Math. Rev.* 11–2. Reviewer: Heyting.

**1949C** [FHV: 1948 C]  
Consciousness, Philosophy and Mathematics. *Proceedings of the 10th International Congress of Philosophy, Amsterdam 1948 III*, p.1235–1249.  
**also in** *CW I*, p.480–494. French translation in [Largeault 1992]  
**published:** –.–.1948  
**reviews:** *Math. Rev.* 10–422. Reviewer: Nelson.

**1950A** [FHV: 1950 A]  
Remarques sur la notion d’ordre. *CR Paris* 230, p.263–265.  
**also in:** *CW I*, p.499–500.  
**published:** –.–.1950  
**submitted by:** É. Borel  
**reviews:** *Zbl.* 0034.29001 (1950), p.290. Reviewer: Schröter. *Math. Rev.* 11–305. Reviewer: Nelson.

**1950B** [FHV: 1950 B]  
Sur la possibilité d’ordonner le continu. *CR Paris* 230, p.349–350.  
**also in:** *CW I*, p.501–502.  
**submitted:** 23.01.1950 **published:** –.–.1950  
**submitted by:** É. Borel  
**reviews:** *Math. Rev.* 11–305. Reviewer: Nelson; *Zbl.* 0041.37503. Reviewer: Schröter/Asser.

**1950C** [FHV: 1950 C]  
Discours final. Les méthodes formelles en axiomatique. *Colloques Internationaux du C.N.R.S. Paris 1950*, p.75.  
**also in** *CW I*, p.503.  
**published:** –.–.1950

**1951** [FHV: 1951]  
On order in the continuum, and the relation of truth to non-contradictority. *Indag. Math.* 13, p.357–358.  
**also in:** KNAW Proc. Ser. A 54, p.357–358. *CW I*, p.504–505.  
**submitted:** 24.11.1951 **published:** –.–.1951  
**reviews:** *Zbl.* 0043.25002 (1952), p.250. Reviewer: Müller.

**1952A**

[FHV: 1952 A]

An intuitionist correction of the fixed–point theorem on the sphere. *Proceedings of the Royal Society London*, Ser. A 213, p.1–2.

**also in:** *CW I*, p.506–507.

**submitted:** 31.12.1951 **published:** –.–.1952

**reviews:** *Zbl.* 0046.40902 (1953), p.409. Reviewer: Freudenthal. *Math. Rev.* 12–965. Reviewer: Freudenthal.

**1952B**

[FHV: 1952 B1]

Historical background, principles and methods of intuitionism. *South African Journal of Science* 49, p.139–146.

**also in:** *CW I*, p.508–515. French translation in [Largeault 1992].

**submitted:** 31.12.1951 **published:** –.10/11.1952

**remarks:** Lecture at South African Ass. for the Advancement of Science, Cape Town, July 1952.

**reviews:** *Math. Rev.* 14–528. Reviewer: Nelson.

**1952C**

[FHV: 1952 C]

Over accumulatiekernen van oneindige kernsoorten. *Indag. Math.* 14, p.439–441.

**also in:** KNAW Proc. Ser. A 55, p. 439–441. English translation ‘On accumulation cores of infinite core species’ in *CW I*, p.516–518.

**submitted:** 27.09.1952 **published:** –.–.1952

**reviews:** *Zbl.* 0047.05901 (1953), p.59. Reviewer: Freudenthal. *Math. Rev.* 14–441. Reviewer: Heyting.

**1952D**

[FHV: 1952 D]

Door klassieke theorema’s gesignaleerde pinkernen die onvindbaar zijn. *Indag. Math.* 14, p.443–445.

**also in:** KNAW Proc. Ser. A 55, p.443–445. English translation: ‘Fixed cores which cannot be found, though they are claimed to exist by classical theorems’ in *CW I*, p.519–521.

**submitted:** 25.10.1952 **published:** –.–.1952

**reviews:** *Zbl.* 0048.028404 (1953), p.284. Reviewer: Freudenthal. *Math. Rev.* 14–783. Reviewer: Heyting.

**1954A**

[FHV: 1954 A]

Points and Spaces. *Canadian Journal for Mathematics* 6, p.1–17.

**also in:** *CW I*, p.522–540. Italian translation in [Mangione-Franchella 1993], p.95–122. French translation in [Largeault 1993], p. 195–220.

**remarks:** After lectures at the Seminar of the Canadian Mathematical Congress at Kingston, 10–31.8.1953.

**submitted:** 01.09.1953 **published:** –.–.1954

**reviews:** *Math. Rev.* 15–593. Reviewer: Heyting; *Zbl.* 0055.04601. Reviewer: Freudenthal.

**1954B**

[FHV: 1954 B]

Addenda en corrigenda over de rol van het principium tertii exclusi in de wiskunde. *Indag. Math.* 16, p.104–105.

**also in:** KNAW Proc. Ser. A 57, p.104–105. English translation in [Heijenoort 1967], p.341–342. *CW I*, p. 539–540.

**submitted:** 30.01.1954      **published:** --.1954

**reviews:** *Math. Rev.* 15–670. Reviewer: Heyting.

**1954C**

[FHV: 1954 C]

Nadere addenda en corrigenda over de rol van het principium tertii exclusi in de wiskunde. *Indag. Math.* 16, p.109–111.

**also in** KNAW Proc. Ser. A 57, p.109–111. English translation ‘Further addenda and corrigenda on the role of the principle of the excluded middle in mathematics’ in [Heijenoort 1967], p.342–345. *CW I*, p. 541–543.

**submitted:** 20.03.1954      **published:** --.1954

**reviews:** *Zbl.* 0059.01402 (1965/66), p.14. Reviewer: Freudenthal. *Math. Rev.* 15–925. Reviewer: Heyting.

**1954D**

[FHV: 1954 D]

Ordnungswechsel in Bezug auf eine coupierbare geschlossene stetige Kurve. *Indag. Math.* 16, p.112–113.

**also in** KNAW Proc. Ser. A 57, p.112–113. *CW I*, p.544–545.

**published:** --.1954

**reviews:** *Zbl.* 0055.16801 (1955), p.168. Reviewer: Haupt. *Math. Rev.* 15–88. Reviewer: Heyting.

**1954E**

[FHV: 1954 E]

Intuitionistische differentieerbaarheid. *Indag. Math.* 16, p.201–203.

**also in** KNAW Proc. Ser. A 57, p. 201–203. English translation ‘Intuitionistic differentiability’ in *CW I*, p.546–548.

**submitted:** 24.04.1954      **published:** --.1954

**reviews:** *Math. Rev.* 16–2. Reviewer: Heyting; *Zbl.* 0056.01304. Reviewer: Freudenthal.

**1954F**

[FHV: 1954 F]

An example of contradictority in classical theory of functions. *Indag. Math.* 16, p.204–205.

**also in:** KNAW Proc. Ser. A 57, p.204–205. *CW I*, p. 549–550.

**submitted:** 24.04.1954      **published:** --.1954

**reviews:** *Zbl.* 0056.01305 (1966), p.13. Reviewer: Freudenthal; *Math. Rev.* 16–2. Reviewer: Heyting.

**1955**

[FHV: 1955]

The effect of intuitionism on classical algebra of logic. *Proceedings of the Royal Irish Academy Sect. A* 57, p.113–116.

**also in** *CW I*, p. 551–554. French translation in [Largeault 1992].

**published:** –.–.1955

**reviews:** *Zbl.* 0066.01101, p.11. Reviewer: Lorenzen.

**1956**

[FHV: 1952 B2]

Voorgeskiedenis, beginsels en metodes van die intuitionisme. *Tydskrif vir Wetenskap en Kuns* 1956, p.186–197.

**published:** –.–.1952

**1975**

*L.E.J. Brouwer. Collected Works 1. Philosophy and Foundations of Mathematics* Ed. A. Heyting. North-Holland Publ. Co. 627p.

**reviews:** *Zbl.* 0311.01021. Reviewer: Schultz.

**1976**

*L.E.J. Brouwer. Collected Works 2. Geometry, Analysis, Topology and Mechanics* Ed. H. Freudenthal. North-Holland Publ. Co. 706p.

**reviews:** *Zbl.* 0328.01020. Reviewer: Friedrich.

**1981A**

*Brouwer's Cambridge Lectures on Intuitionism.* Ed. D. van Dalen. Cambridge University Press. Cambridge. xii + 109p.

**also in** translation S. Bernini *Lezioni Sull' Intuitionismo.* Boringhieri, Torino. 1983.

**reviews:** *Zbl.* 0476.03056. Reviewer: Luckhardt.

**1981B**

*Over de Grondslagen der Wiskunde.* Ed. D. van Dalen. Mathematisch Centrum. Amsterdam.

267p.

**remarks:** Dissertation + Correspondence Brouwer–Korteweg + reviews + [Brouwer 1908C]

**reviews:** *Zbl.* 0484.01009. Reviewer: Bottema.

**1983**

*Lezioni Sull' Intuitionismo* Boringhieri. Torino, 113p. Translation of [Brouwer 1981A] by S. Bernini.

**1984**

L.E.J. Brouwer & C.S. Adama van Scheltema. *Droeve Snaar, Vriend van Mij. Brieven*. Ed. D. van Dalen. Arbeiders Pers. Amsterdam. 173p. (Correspondence Brouwer-Adama van Scheltema + short biography.)

**1985**

Recensie ‘Amsterdam’ van C.S. Adama van Scheltema. Unpublished review; published by R. Delvigne in *Juffrouw Ida*, 11 no.3, 41–44, 1985.

**1986**

Intuicionizm i formalizm. Translation of [Brouwer 1913C] by R. Murawski. In R. Murawski, *Filozofia matematyki. Antologia tekstów klasycznych*, p.263–275. Wydawnictwo Naukowe UAM. Poznan.

**1992**

*Intuitionismus*. Bibliographisches Institut, Wissenschaftsverlag. Mannheim. 161p. (Ed. D. van Dalen). Berlin 1927 lectures and parts of an unpublished book on real functions.

**reviews:** *Zbl.* 0761.03001. Reviewer: Kreisel.

**1996**

Life, Art and Mysticism. Translation of [Brouwer 1905A] by W.P. van Stigt. *Notre Dame Journal of Formal Logic*, 37. 381–429.

**2001**

*L.E.J. Brouwer en de Grondslagen van de Wiskunde*. Ed. D. van Dalen.

Contains the correspondence between Korteweg and Brouwer on the dissertation + [Brouwer 1907] with Brouwer’s own corrections + reviews + [Brouwer 1908B] + [Brouwer 1908C] + [Brouwer 1912]+ [Brouwer 1918].

First published by the Mathematical Centre, Amsterdam [Brouwer 1981B]. This expanded version was published by Epsilon, Utrecht, 2001, 2005.

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The following items have a vaguely Brouwerian ring, but it is more likely that they were not written by him. Possibly his brother could have tried to imitate him. The choice of the name ‘J. van de Zee’ is suggestive.

**1905C**

Wat is Wijsheid? *Studentenweekblad, Delft*, 19.10.1905, p. 20

**remarks:** signed J.v.d.Z. Style reminiscent of Brouwer. Letter to the editor.

**published:** 19.10.1905

**1905D**

Over Wiskunde. *Studentenweekblad*, 30.11.1905, p. 75

**remarks:** signed Jan van der Zee. Style reminiscent of Brouwer.

**published:** 30.11.1905

## Collections

**1964. Benacerraf and Putnam**

*Philosophy of Mathematics. Selected Readings.* Eds. P. Benacerraf, H. Putnam. Prentice Hall. Englewood Cliffs. Second edition 1983.

**1967. Heijenoort**

*From Frege to Gödel*, Ed. J. van Heijenoort. Harvard University Press. Cambridge, MA.

**1992. Largeault**

*Intuitionisme et théorie de la démonstration.* Ed. J. Largeault. Vrin. Paris.

**1993. Mangione-Franchella**

*Lecture di Logica. Fondamenti della Matematica. Linee di Ricerca Attuali*, Eds. Corrado Mangione, Miriam Franchella. Edizioni Universitarie di Lettere Economia Diritto. Milano.

**1993. Largeault**

*Intuition et Intuitionisme*, Ed. J. Largeault. Vrin. Paris. 238p.

**1998. Mancosu**

*From Brouwer to Hilbert. The Debate on the Foundations of Mathematics in the 1920s.*, Ed. P. Mancosu. Oxford University Press. Oxford.

## Dissertations under supervision of Brouwer

Bernardus Petrus Haalmeijer (28.11.1917) *Bijdragen tot de theorie der elementairoppervlakken.*

Maurits Joost Belinfante (12.12.1923) *Over Oneindige Reeksen.*

Barend de Loor (23.2.1925) *Die Hoofstelling van die Algebra van Intuitionistische Standpunt.*

Arend Heyting (25.5.1925) *Intuitionistische Axiomatiek der Projektieve Meetkunde.*

Wilfrid Wilson (10.2.1928) *Afbeeldingen van Ruimten.*

Frans Loonstra (11.7.1941) *Analytische Untersuchungen über bewertete Körper.*

Johanna Adriana Geldof (11.7.1951) *Over de arithmetisering van axiomatische meetkunden.*