

# A Bibliography of Publications of Pieter W. Hemker

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## Abstract

4 [Hem96a].

This bibliography records publications of Pieter W. Hemker.

8th [WHO08].

## Title word cross-reference

96c [Hem96a].

2 [Hem82a, HM91]. 3 [Hem95a, Hem95b, Hem96a, HdZ97, Hem97, KH97]. *D* [KH92b].  $\epsilon$  [HSS97a, HSS99a, HSS00]. *H* [HHA09]. *hp* [HL08]. *n* [TH94].

**-adaptive** [HL08]. **-component** [TH94]. **-D** [Hem82a]. **-Dimensional** [HdZ97]. **-transform** [HHA09]. **-Uniform** [HSS97a, HSS99a, HSS00].

**2D** [MH90].

**3-Dimensional** [Hd93a, Hd93b]. **3D** [Hem92, HKN97, HKN98, KHE97, NH97, NH98].

**aan** [Hem90a, Hem96b]. **aanvaarding** [Hem90a]. **Acceleration** [DHH<sup>+</sup>91, HSS01b]. **Accuracy** [HSS97a, Hem87, HSS99b, HSS00, HSS02b, KSS04]. **accurate** [Hem82a, Hem82d, HSS01b, HSS01a, HSS02a, HSS02c, HSS03a, HSS03b, KH91c]. **activity** [HEH<sup>+</sup>67, HH09, HH13]. **actuator** [ELE<sup>+</sup>06]. **acute** [DHH<sup>+</sup>02]. **adapted** [HP93]. **Adaptive** [DHH<sup>+</sup>91, HS94b, HKL<sup>+</sup>97b, Hem00, VH95, Hem80d, HvdME90, HM91, HS01, HL08, vdMHE90, NH00, SSH04, VKH06, vdMHKM93]. **Adv.** [Hem96a]. **affinity** [RTH<sup>+</sup>11]. **ALGOL** [CHvS72, Hem71a, Hem73a, Hem77a, HW79,

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**Algorithms** [Hem84c, DH90a, DH90b, Hem80b, Hem82f, Hem84b]. **ambt** [Hem90a].  
**Amsterdam** [Hem90a]. **Analysis** [DH90a, DH90b, DH95, HM79, Hem80a, HHvR03b, HvR04, HHvR04, vRH05].  
**antibody** [RTH<sup>+</sup>11]. **antibody-antigen** [RTH<sup>+</sup>11]. **antigen** [RTH<sup>+</sup>11]. **Application** [HHH00, Hem00, NH00, vdMHKM93].  
**applied** [ELE<sup>+</sup>06, dH79]. **approach** [BHS84, Hem88a, HM91, HHvR03b, MH90].  
**approaches** [HJ87, NH97, NH98].  
**Approximate** [TH94, Hem82e].  
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**Arising** [HSS97b]. **Aspects** [HHL65, HH68, HSd80, Hem83b]. **assay** [HHv<sup>+</sup>71]. **assessment** [RTH<sup>+</sup>11].  
**autonomous** [HWD84].

**bases** [HP93]. **Basic** [HHL65]. **BASIS** [HvdME90]. **BASIS3** [Hd93a, Hd93b, HdZ97]. **begin** [CHvS72].  
**begin-** [CHvS72]. **behaviour** [HD93c]. **bias** [Hem82a]. **bibliography** [Hem80c]. **bij** [Hem90a]. **Bijzonder** [Hem90a]. **binding** [RTH<sup>+</sup>11]. **bioassay** [RTH<sup>+</sup>11]. **biological** [HdH06]. **Blood** [HHL65, HH68, HdH06].  
**bouds** [dH79]. **Boundary** [FHS95, FHS96a, Hem77b, HS94b, FHST95, FHS96b, FHS96c, dH79, Hem74a, HSd80, HSS02c, HHvR03a, HSS03a].  
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**C1** [DHH<sup>+</sup>02]. **C1-inhibitor** [DHH<sup>+</sup>02].  
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**chemical** [HDH05]. **circle** [Hem74b]. **Class** [HS94b, HST02, SSH04]. **Clotting** [HHL65, HH68, WHH06]. **coagulation** [HDH05, HdH06]. **Coarsened** [KHE97].  
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**Colloquium** [BHPv76, BDHv75, DHv72].  
**Comparing** [HSd80]. **comparison** [Hem82f, RTH<sup>+</sup>11]. **competitive** [HH68].  
**component** [TH91, TH94]. **composed** [HST02]. **Compressible** [VH95, DHK93].  
**Comput** [Hem96a]. **Computation** [Hem86a, HHv<sup>+</sup>73, Hem96c, KH91b, KH92a].  
**computational** [DHKL94]. **Computations** [KHd97, HvdME90, HSS01b, KdH88, KH91a, KH91c, KH92b, KvBH<sup>+</sup>03]. **concentrated** [SSH97]. **concentrations** [HHA09].  
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**conditions** [FHST95, HSS02c, HHvR03a, HSS03a].  
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**Contributions** [HW94a]. **control** [HDH05].  
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**converting** [HEH<sup>+</sup>67]. **corrected** [HH09, HH13]. **Correction** [Hem82b, BHS84, DH90a, DH90b, DH95, EH05, ELH08a, ELH08b, Hem82c, Hem82d, Hem82e, HD83, Hem83c, Hem84a, Hem86b, HK88a, HK88b, HK88c, HD93c, HK94, HK95a, HK95b, HS95, HSS97c, HSS98, HSS99a, HSS02a, HSS03b, KH91c].  
**Corrigendum** [Hem96a]. **course** [HH09, HH13]. **Criteria** [Hem77a].  
**cubature** [Hem73b]. **curved** [HL08].

**D** [Hem96a, Hem82a, HM91, Hem95a, Hem95b, Hem97, KH97]. **D-problems** [Hem96a, Hem95b, Hem97]. **Damped** [KH91a]. **Data** [Hd93a, Hd93b, HdZ97, HvdME90, SSH97].

- decomposition** [FHST95, Hem80b, KSS04]. **Decoupled** [DHH<sup>+</sup>91]. **deel** [BDHv75, DHv72]. **Defect** [Hem82b, HD83, Hem86b, HK88a, HK88b, HK94, HK95a, HK95b, HSS02a, BHS84, DH90a, DH90b, DH95, EH05, ELH08a, ELH08b, Hem82c, Hem82d, Hem82e, Hem83c, Hem84a, HK88c, HD93c, HS95, HSS97c, HSS98, HSS99a, KH91c]. **defect-correction** [DH90a, DH90b, DH95, HSS99a]. **deficient** [Hem82e]. **dependent** [KH91a]. **Derivation** [HHL65]. **derivative** [Hem83a, Hem84d]. **design** [ELE<sup>+</sup>06]. **development** [HKWdZ83]. **device** [Hem88a, Hem88b, Hem90b]. **devoted** [WHO08]. **difference** [HSS01b, HS01]. **differences** [Hem74a]. **differentiaalvergelijkingen** [BDHv75, DHv72]. **differential** [Hem71a, Hem72a, Hem72b]. **Diffusion** [HSS97b, Hem82d, HSS99a, HSS01b, HSS02a, HSS02c, HST02, HSS03a, HSS03b, KSS04, SSH04, VKH06, vRH05]. **diffusional** [HDH05]. **Dimensional** [Hd93a, Hd93b, HdZ97, Hem88a, Hem88b, Hem90b, HK91, HvR04, KdH88, KH91c]. **Dimensions** [KHd97]. **diode** [Hem90b]. **direct** [HSS03b]. **direct-correction** [HSS03b]. **direction** [KH91a]. **directional** [Hem82a]. **Directions** [KHd97]. **Discontinuuous** [HS92, HS93, HS94a, HHvR03a, HHvR03b, HvR04, HHvR04, vRH05]. **Discrete** [FHS95, FHS96a, FHS96b, FHS96c, HS92, HS94a, HSS97b]. **discretisation** [HvR04]. **Discretiseringsmethoden** [BHPv76]. **discretization** [HHvR03a, HHvR03b, HHvR04]. **discretized** [vRH05]. **distribution** [FHST95]. **disturbance** [SSH97]. **disturbances** [HH09, HH13]. **domain** [FHST95, Hem74b, HST02]. **double** [HHv<sup>+</sup>73]. **double-length** [HHv<sup>+</sup>73]. **During** [HDH05]. **dyadic** [HS01]. **dynamical** [EHS95]. **Dynamics** [HKL<sup>+</sup>95, HKL<sup>+</sup>97a, HKL<sup>+</sup>97b, DHKL94]. **Editorial** [WHO08]. **Efficient** [HK91, KH91b, KH92a, HS86, HKS86, KH91c]. **elementary** [HHv<sup>+</sup>73]. **elements** [Hem73c, HHvR04]. **ellipsometry** [RTH<sup>+</sup>11]. **elliptic** [Hem73c, Hem82a, Hem95a, KSS04]. **embedded** [HHvR03a]. **EMG** [WHO08]. **enzymatic** [HH09, HH13]. **enzyme** [HH69, HH09, HH13]. **Enzymes** [HHL65, HH68]. **equation** [Hem73c, Hem82d, HL08, KSS04, vRH05]. **equations** [DHK93, Hem71a, Hem72a, Hem72b, HS81, HS84, HS85a, HS85b, Hem86b, HS86, HKS86, HJ87, Hem87, HK88a, HK88b, HK88c, HK89, HM91, HK91, HD93c, HK94, HK95a, HK95b, HSS99b, HST02, MH90, vdMHKM93]. **ERCIM** [DHKL94]. **Error** [dH79]. **errors** [KvBH<sup>+</sup>03]. **estimation** [vH75, Hem72a, Hem72b]. **EULER** [vdMHE90, HS84, HS85a, HS85b, Hem86a, Hem86b, HS86, HKS86, HJ87, Hem87, HK88a, HK88b, HK89, HK91, HK94, HK95a, HK95b, KH91c, KH92b, KHd97, vdMHKM93]. **Euler-Flow** [KHd97]. **European** [WHO08]. **evaluation** [HHv<sup>+</sup>71]. **exact** [HL08]. **exchange** [TH91, TH94]. **exponentially** [dH79]. **Extensions** [Hem82c]. **exterior** [Hem74b]. **external** [HHA09]. **fast** [HKWdZ83]. **Finite** [Hem97, VH95, Hem73c, Hem94, Hem95b, Hem96a, HS01]. **Finite-Volume** [VH95, Hem94, Hem95b, Hem96a]. **fitted** [dH79]. **Fix** [KvBH<sup>+</sup>03]. **floating** [SSH97]. **Flow** [KHd97, Hem86a, KdH88, KH91a, KH91c, KH92b, KvBH<sup>+</sup>03]. **Flows** [VH95, DHK93, KH91b, KH92a]. **fluid** [DHKL94, KvBH<sup>+</sup>03]. **fluorescent**

- [HHA09]. **Formation** [HEH<sup>+</sup>67]. **Formulas** [HHL65]. **Fourier** [Hem80a, HHvR03b, HvR04, HHvR04]. **Fouten** [Hem90a]. **Fredholm** [HS81]. **free** [RTH<sup>+</sup>11]. **functions** [HHv<sup>+</sup>73, HS01].
- Galerkin** [dH79, Hem75, HHvR03a, HHvR03b, HvR04, HHvR04, vRH05]. **Gas** [HKL<sup>+</sup>95, HKL<sup>+</sup>97a, HKL<sup>+</sup>97b, Hem86a]. **Gauss** [Hem82f, KdH88]. **General** [HH69]. **generation** [HDH05, HHA09, HHH72]. **Godunov** [KH97]. **Godunov-type** [KH97]. **Grid** [DHH<sup>+</sup>91, Hem00, HHH00, Hem80b, Hem80c, Hem81b, HS81, Hem86b, HS86, HKS86, Hem94, Hem95b, NH97, NH98, NH00, Hem96a]. **gridfunctions** [Hem80a]. **Grids** [Hd93a, Hd93b, HdZ97, HKN97, KH97, HP96, HP97, HKN98, HS01].
- High** [HSS97a, HSS01a, HSS02c, HSS02b, HSS03a, KSS04, HSS99b, HSS00, HSS01b, HSS02a, HSS03b, RTH<sup>+</sup>11]. **high-affinity** [RTH<sup>+</sup>11]. **High-Order** [HSS97a, HSS01a, HSS02c, HSS02b, HSS03a, KSS04, HSS99b, HSS00, HSS01b, HSS02a, HSS03b]. **higher** [Hem86b, HvR04]. **highest** [Hem83a, Hem84d]. **homogeneous** [HHH72]. **hoogleraar** [Hem90a]. **hyperbolic** [DH90a, DH90b, DH95, HD93c]. **hypersonic** [KH91a, KH91b, KH92a].
- Identification** [HK93, EHS95]. **II** [FHS96b]. **III** [FHS96c]. **ILU** [Hem82f]. **impacts** [HH09, HH13]. **implementations** [HdZ85]. **implicit** [DH90a, DH90b]. **improved** [Hem87]. **incomplete** [Hem80b]. **Index** [Hem73a]. **Industriële** [Hem90a]. **infarction** [DHH<sup>+</sup>02]. **inhibition** [HH68]. **inhibitor** [DHH<sup>+</sup>02]. **inhomogeneous** [HP93, HHH72]. **Initial** [HS92, HS93, HS94a, vH75, FHST95, SSH97]. **integral** [HS81]. **Interaction** [HHL65, HH68]. **interfaces** [KvBH<sup>+</sup>03]. **interior** [SSH04]. **Introduction** [Hem81a].
- inverse** [Hem82e]. **ion** [TH91, TH94]. **ion-exchange** [TH91, TH94]. **issue** [WHO08]. **iteration** [DH95, Hem82d, Hem84a]. **iterative** [DH90a, DH90b]. **IV** [HH68, HW94b].
- John** [HOS03].
- kernel** [HL08]. **kind** [HS81]. **Kinetic** [HHL65, HH68]. **Kinetics** [HK93, HH69, HH68]. **KWIC** [Hem73a].
- Label** [RTH<sup>+</sup>11]. **Label-free** [RTH<sup>+</sup>11]. **layer** [SSH04]. **Layers** [FHS95, FHS96a, FHS96b, FHS96c, Hem86a]. **Lecture** [Hem81b]. **length** [HHv<sup>+</sup>73]. **level** [EH08, Hem80d, HHvR03b, HvR04, HHvR04, vRH05]. **libraries** [Hem77a]. **library** [Hem73a]. **limits** [WHH06]. **Line** [KdH88, Hem82f]. **Line-Gauss** [Hem82f]. **Lineaire** [Hem71b]. **linear** [ELE<sup>+</sup>06, HdZ85, HK89, HHvR04]. **Lobatto** [Hem75]. **local** [FHST95]. **LU** [Hem80b]. **LU-decomposition** [Hem80b].
- Maken** [Hem90a]. **Manifold** [ELE<sup>+</sup>06, EH08, HE07b, HE07a]. **Manifold-mapping** [ELE<sup>+</sup>06, HE07a]. **Manual** [EHS95]. **mapping** [EH05, ELE<sup>+</sup>06, EH08, ELH08a, ELH08b, HE07b, HE07a]. **Math.** [Hem96a]. **Mathematical** [HdH06, HKT93, HHA09]. **measurement** [HH09, HH13]. **measuring** [HHA09]. **meerstapsmethoden** [Hem71b]. **Mesh** [HS94b, PWBH81, SSH04]. **Mesh-Parameter** [PWBH81]. **meshes** [SSH97]. **method** [FHST95, Hem74a, Hem75, Hem80b, Hem82a, HKS86, Hem88b, HK89, Hem90b, HSS98, HSS99a, KSS04, PWBH81, SSH97, vRH05, vdMHKM93]. **Methods** [HSS97b, dH79, Hem72a, Hem81a, Hem81b, HS81, HKWdZ83, Hem83a, Hem84d, HW94b, HST02, TH91, TH94]. **Miller** [HOS03]. **Mixed** [Hem82d, Hem84a].

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**n** [TH91]. **n-component** [TH91]. **Navier** [DHH<sup>+</sup>91, DHK93, HK88c]. **near** [KvBH<sup>+</sup>03]. **Necessary** [HS94b]. **nested** [Hem73b]. **Neumann** [HSS99b]. **nieuw** [Hem92]. **no** [Hem96a]. **non** [HK89]. **non-linear** [HK89]. **Nonlinear** [vH75, Hem90b, Hem72b, Hem73c, HKS86, HK88a, HK88b, Hem88b, HK94, HK95a, HK95b]. **note** [Hem82e]. **notes** [Hem81b]. **Novel** [HSS03b]. **NUMAL** [Hem73a, Hem81c]. **Numerical** [Hem72a, Hem77b, HM79, Hem81c, Hem83b, HSS97b, Hem73a, Hem74b, HW79, Hem82a, Hem96c, HSS99b, HST02, SSH97].

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**randwaardeproblemen** [CHvS72, HR76]. **rank** [Hem82e]. **Reaction** [HK93, HH09, HH13, KSS04]. **reaction-diffusion** [KSS04]. **rebuttal** [HdH06]. **rectangle** [HSS98]. **Rede** [Hem90a]. **refinement** [Hem95a]. **region** [HE07a]. **regular** [HP96, HP97]. **Rekenen** [Hem96b]. **relating** [HH09, HH13]. **relaxation** [Hem80b, Hem82f, KdH88]. **Remarks** [Hem94]. **report** [HW79]. **representation** [HS01]. **Research** [DHKL94]. **restrictions** [Hem80a, Hem90c]. **results** [Hem90b, NH97, NH98]. **Richardson** [KSS04]. **Robin** [HSS02c, HSS03a]. **rules** [Hem73b]. **Run** [Hem84c, Hem84b].

**scheme** [HS86]. **Schemes** [DHH<sup>+</sup>91, HSS97a, KH97, Hem86b, HK88c, HSS00, HSS01b, HSS01a, HSS02a, HSS02c, HSS02b, HSS03a, HSS03b, KH91c]. **second** [HS81]. **Seidel** [Hem82f, KdH88]. **Semi** [KHE97, KHd97, Hem95a]. **Semi-Coarsened** [KHE97]. **Semi-Coarsening** [KHd97]. **semi-refinement** [Hem95a]. **semiconductor** [Hem88a, Hem88b, Hem90b, HM91, MH90]. **seminar** [Hem81b]. **sequence** [Hem73b]. **set** [HHH00]. **Sets**

[HKN97, HP96, HP97, HKN98]. **shifts** [HDH05]. **sided** [Hem74a]. **simulation** [Hem72a, Hem88a, Hem88b, Hem90b, WHH06]. **Single** [HHv<sup>+</sup>73]. **Single-** [HHv<sup>+</sup>73]. **Singular** [HSS97a, Hem00, HHH00, Hem74b, HM79, Hem82a, HD83, Hem83b, Hem84a, HS95, HSS97c, HSS98, HSS00, HSS02b, HSS03a, NH00]. **Singularly** [FHS95, FHS96a, HS92, HS94b, HS94a, HSS97b, FHST95, FHS96b, FHS96c, Hem83c, Hem96c, HSS99b, HSS01b, HSS01a, HSS02a, HSS02c, HST02, HSS03b, KSS04, SSH97, SSH04]. **small** [Hem83a, Hem84d]. **software** [EHS95]. **solute** [TH91, TH94]. **Solution** [DHH<sup>+</sup>91, Hem95a, HSS97b, HKL<sup>+</sup>97b, DHK93, Hem71a, Hem73c, Hem74b, HS81, Hem82a, Hem82d, HD83, Hem83c, Hem84a, HS85a, HS85b, Hem86b, HS86, HKS86, HM91, HS95, HSS97c, HSS99b, HL08, KvBH<sup>+</sup>03, MH90, vdMHKM93]. **Solution-Adaptive** [HKL<sup>+</sup>97b, vdMHKM93]. **solutions** [HS84]. **Solvers** [DHH<sup>+</sup>91, HKWdZ83, HdZ85]. **solving** [HSS01b]. **Some** [HdZ85, HSd80]. **soort** [Hem92]. **Space** [EH05, ELH08a, ELH08b, HSS03b]. **Sparse** [Hd93a, Hd93b, Hem95b, HdZ97, Hem00, KH97, Hem94, NH97, NH98, NH00, Hem96a]. **Sparse-Grid** [Hem00, Hem95b, Hem94, NH00, Hem96a]. **Special** [WHO08]. **spIds** [EHS95]. **SPR** [RTH<sup>+</sup>11]. **stable** [HHH72]. **stage** [HHv<sup>+</sup>71]. **Standard** [HK97]. **staplengte** [Hem71b]. **states** [HHH72]. **Steady** [HKL<sup>+</sup>95, HKL<sup>+</sup>97a, HKL<sup>+</sup>97b, HS84, HS85a, HS85b, Hem86b, HS86, HKS86, HK88a, HK88b, HK88c, HK89, HK91, HK94, HK95a, HK95b, KdH88, KH91b, KH92a, KH92b]. **Stiff** [Hem77b, dH79, Hem71a, Hem74a]. **stijve** [BDHv75, DHv72]. **stimulated** [DHKL94]. **Stokes** [DHH<sup>+</sup>91, DHK93, HK88c]. **strategy** [HE07a, HL08, VKH06].

**Structure**

[Hd93a, Hd93b, HdZ97, Hem80d, HvdME90].  
**Structured** [VH95]. **Study** [Hem77b].  
**substrate** [HH09, HH13]. **substrates**  
 [HHA09]. **Supercomputers**  
 [Hem84c, Hem84b]. **system**  
 [Hem72a, HdZ85, WHH06]. **systems**  
 [EHS95, Hem95a].

**Technique** [HS94b, Hem00, EH08, HHH00,  
 HHA09, NH00, SSH04]. **Techniques** [HK97].  
**tests** [HH68]. **theory** [HHH72]. **Three**  
 [KHd97]. **thrombin** [HDH05, HHA09].  
**Time** [HSS97a, HH09, HH13, HSS99b,  
 HSS00, HSS01b, HSS01a, HSS02c, HSS02b,  
 HSS03a, HSS03b]. **Time-Accuracy**  
 [HSS97a, HSS00, HSS02b]. **time-accurate**  
 [HSS01b, HSS01a, HSS02c, HSS03a].  
**Time-course** [HH09, HH13]. **transform**  
 [HHA09]. **transport** [TH91, TH94].  
**transportable** [Hem77a]. **trends** [DHK93].  
**trust** [HE07a]. **trust-region** [HE07a].  
**turning** [Hem74a]. **tweepunts** [HR76].  
**Two** [Hem77b, HHvR03b, vRH05, EH08,  
 dH79, HHv<sup>+</sup>71, HSd80, HvR04, HHvR04,  
 KdH88, KvBH<sup>+</sup>03]. **two-dimensional**  
 [KdH88]. **two-fluid** [KvBH<sup>+</sup>03]. **Two-level**  
 [HHvR03b, vRH05, EH08, HvR04, HHvR04].  
**two-point** [dH79, HSd80]. **two-stage**  
 [HHv<sup>+</sup>71]. **type** [KH97].

**uitgesproken** [Hem90a]. **Uniform**  
 [HSS97a, HSS99a, HSS00, HST02].

**Universiteit** [Hem90a, Hem96b]. **Upwind**  
 [DHH<sup>+</sup>91, HK88c, KH91c]. **upwinding**  
 [HK91, KH92b]. **use**  
 [Hem83c, HS95, HSS97c].

**Value** [FHS95, FHS96a, Hem77b, HS94b,  
 vH75, FHST95, FHS96b, FHS96c, dH79,  
 Hem74a, HSd80]. **variabele** [Hem71b].  
**vector** [HWD84]. **vector-code** [HWD84].  
**Verbeteren** [Hem90a]. **Volume**  
 [VH95, Hem94, Hem95b, Hem96a, Hem97].

**voor** [CHvS72, Hem92].

**Wavelet** [HP93]. **Wavelets** [HKT93].  
**weighted** [Hem74a]. **which** [HS94b]. **wire**  
 [HL08]. **Wiskunde** [Hem90a]. **without**  
 [Hem82a, HHA09].

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