

Papers published before 2016

1. M.A. Kaashoek,
Closed linear operators on Banach spaces, *Proc. Acad. Sci. Amsterdam A* 68 (1965), 405-414.
2. M.A. Kaashoek,
Stability theorems for closed linear operators, *Proc. Acad. Sci. Amsterdam A* 68 (1965), 452-466.
3. M.A. Kaashoek,
Ascent, descent, nullity and defect, a note on a paper by A.E. Taylor, *Math. Ann.* 172 (1967), 105-115.
4. M.A. Kaashoek and D.C Lay,
On operators whose Fredholm set is the complex plane, *Pacific J. Math.* 21 (1967), 275-278.
5. M.A. Kaashoek and T.T. West,
Locally compact monothetic semi-algebras, *Proc. London Math. Soc.* 18 (1968), 428-438.
6. M.A. Kaashoek,
On the Riesz set of a linear operator, *Proc. Acad. Sci. Amsterdam A* 71 (1968), 46-53.
7. M.A. Kaashoek and T.T. West,
Semi-simple locally compact monothetic semi-algebras, *Proc. Edinburgh Math. Soc.* 16 (1969), 215-219.
8. M.A. Kaashoek and T.T. West,
Compact semigroups in commutative Banach algebras, *Proc. Camb. Phil. Soc.* 66 (1969), 265-274.
9. M.A. Kaashoek,
Locally compact semi-algebras and spectral theory, *Nieuw Archief voor Wiskunde* 17 (1969), 8-16.
10. M.A. Kaashoek,
On the peripheral spectrum of an element in a strict closed semi-algebra, in: *Hilbert space operators*, Colloquia Mathematica Societatis Janos Bolyai 5, 1970, Amsterdam, 1971; pp. 319-332.
11. M.A. Kaashoek and M.R. Smyth,
On operators T such that $f(T)$ is Riesz or meromorphic, *Proc. Royal Irish Acad.* 72 (section A) (1972), 81-87.
12. M.A. Kaashoek and D.C Lay,
Ascent, descent, and commuting perturbations, *Trans. Amer. Math. Soc.* 169 (1972), 35-47.

13. M.A. Kaashoek,
A note on the spectral properties of linear operators leaving invariant a convex set,
Proc. Acad. Sci. Amsterdam A 76 (1973), 254-262.
14. H. Bart, M.A. Kaashoek and D.C. Lay,
Stability properties of finite meromorphic operator functions, *Proc. Acad. Sci. Amsterdam A* 77 (1974), 217-259.
15. K.H. Förster and M.A. Kaashoek,
The asymptotic behavior of the reduced minimum modulus of a Fredholm operator,
Proc. Amer. Math. Soc. 49 (1975), 123-131.
16. H. Bart, M.A. Kaashoek and D.C. Lay,
Relative inverses of meromorphic operator functions and associated holomorphic projection functions, *Math. Ann.* 218 (1975), 199-210
17. I. Gohberg, M.A. Kaashoek and D.C. Lay,
Spectral classification of operators and operator functions, *Bull. Amer. Math. Soc.* 82 (1976), 587-589.
18. M.A. Kaashoek,
Recent developments in the spectral analysis of matrix and operator polynomials, in: *Proceedings Bicentennial Congress of the Wiskundig Genootschap*, part II, Math. Centre, Tract 101, Mathematical Centre, Amsterdam, 1978; pp. 233-247.
19. M.A. Kaashoek,
Commentary on a paper by C. Visser, in *Two decades of mathematics in the Netherlands*, Mathematical Centre, Amsterdam, 1978; pp. 316-320.
20. I. Gohberg, M.A. Kaashoek and D.C. Lay,
Equivalence, Linearization and Decomposition of holomorphic operator functions, *J. Funct. Analysis* 28 (1978), 102-144.
21. I. Gohberg, M.A. Kaashoek and F. van Schagen,
Common multiples of operator polynomials with analytic coefficients, *Manuscripta Math.* 25 (1978), 279-314.
22. H. Bart, I. Gohberg and M.A. Kaashoek,
Operator polynomials as inverses of characteristic functions, *Integral Equations and Operator Theory* 1 (1978), 1-8.
23. H. Bart, M.A. Kaashoek and D.C. Lay,
The integral formula for the reduced algebraic multiplicity of meromorphic operator functions, *Proc. Edinb. Math. Soc.* 21 (1978), 65-72.
24. I. Gohberg and M.A. Kaashoek,
Unsolved problems in matrix and operator theory, I. Partial multiplicities and additive perturbation, *Integral Equations and Operator Theory* 1 (1978), 278-283.

25. I. Gohberg, M.A. Kaashoek and L. Rodman,
 Spectral analysis of families of operator polynomials and a generalized Vandermonde matrix, I. The finite dimensional case, in: *Topics in Functional Analysis*. Advances in Mathematics, Supplementary Studies, vol. 3, Academic Press, London 1978; pp. 91-128.
26. H. Bart, I. Gohberg and M.A. Kaashoek,
 Stable factorizations of monic matrix polynomials and stable invariant subspaces, *Integral Equations and Operator Theory* 1 (1978), 496-517.
27. I. Gohberg, M.A. Kaashoek and L. Rodman,
 Spectral analysis of families of operator polynomials and a generalized Vandermonde matrix, II. The infinite dimensional case, *J. Funct. Analysis* 30 (1978), 358-389.
28. I. Gohberg and M.A. Kaashoek,
 Unsolved problems in matrix and operator theory, II. Partial multiplicities for products, *Integral Equations and Operator Theory* 2 (1979), 116-120.
29. I. Gohberg, M.A. Kaashoek and F. van Schagen,
 Similarity of operator blocks and canonical forms. I. General results. Feedback equivalence and Kronecker indices, *Integral Equations and Operator Theory* 3 (1980), 350-396.
30. M.A. Kaashoek and M.P.A. van de Ven,
 A linearization for operator polynomials with coefficients in certain operator ideals, *Annali Mat. pura appl.* (IV) 15 (1980), 329-336.
31. H. Bart, I. Gohberg, M.A. Kaashoek and P. Van Dooren,
 Factorizations of transfer functions, *SIAM J. Control Opt.* 18 (1980), 675-696.
32. I. Gohberg, M.A. Kaashoek, L. Lerer and L. Rodman,
 Common multiples and common divisors of matrix polynomials, I. Spectral method, *Indiana University Mathematics Journal* 30 (1981), 321-356.
33. I. Gohberg, M.A. Kaashoek and F. van Schagen,
 Similarity of operator blocks and canonical forms, II. Infinite dimensional case and Wiener-Hopf factorization, in: *Topics in Modern Operator Theory*, OT 2, Birkhäuser Verlag, 1981; pp.121–170.
34. M.A. Kaashoek, C.V.M. van der Mee and L. Rodman,
 Analytic operator functions with compact spectrum, I. Spectral nodes, linearization and equivalence, *Integral Equations and Operator Theory* 4 (1981), 504–547.
35. M.A. Kaashoek, C.V.M. van der Mee and L. Rodman,
 Spectral analysis of analytic operator functions with compact spectrum, in: *Proc. Int. Symposium on Mathematical Theory of Networks and Systems* (Ed. N.Levan), Santa Monica, 1981; pp. 134–138.

36. H. Bart, I. Gohberg and M.A. Kaashoek,
Wiener-Hopf integral equations, Toeplitz matrices and linear systems, in: *Toeplitz Centennial* (ed. I. Gohberg), OT 4, Birkhäuser Verlag, 1982; pp. 85-135.
37. H. Bart, I. Gohberg and M.A. Kaashoek,
Convolution equations and linear systems, *Integral Equations and Operator Theory* 5 (1982), 283-340.
38. M.A. Kaashoek, C.V.M. van der Mee and L. Rodman,
Analytic operator functions with compact spectrum II. Spectral pairs and factorization, *Integral Equations and Operator Theory* 5 (1982), 791-827.
39. I. Gohberg, M.A. Kaashoek, L. Lerer and L. Rodman,
Common multiples and common divisors of matrix polynomials, II. Vandermonde and resultant matrices, *Linear and Multilinear Algebra* 12 (1982), 159-203.
40. I. Gohberg, M.A. Kaashoek and F. van Schagen,
Rational matrix and operator functions with prescribed singularities, *Integral Equations and Operator Theory* 5 (1982), 673-717.
41. M.A. Kaashoek, C.V.M. van der Mee and L. Rodman,
Analytic operator functions with compact spectrum, III. Hilbert space case: inverse problem and applications, *J. Operator Theory* 10 (1983), 219-250.
42. H. Bart, I. Gohberg and M.A. Kaashoek,
The coupling method for solving integral equations, in: *Topics in Operator Theory, Systems and Networks, The Rehovot Workshop* (Eds. H. Dym, I. Gohberg), OT 12, Birkhäuser Verlag, Basel, 1984; pp. 39-73. Addendum, *Integral Equations and Operator Theory* 8 (1985), 890-891.
43. H. Bart, I. Gohberg and M.A. Kaashoek,
Wiener-Hopf factorization and realization, in: *Mathematical Theory of Networks and Systems, Proceedings of the MTNS-83 International Symposium*, Beer Sheva, Israel (Ed. P. Fuhrmann), Lecture notes in Control and Information Sciences, nr. 58, Springer Verlag, Berlin, 1984; pp. 42-62.
44. I. Gohberg and M.A. Kaashoek,
Time varying linear systems with boundary conditions and integral operators, I. The transfer operator and its properties, *Integral Equations and Operator Theory* 7 (1984), 325-391.
45. I. Gohberg, M.A. Kaashoek, L. Lerer and L. Rodman,
Minimal divisors of rational matrix functions with prescribed zero and pole structure, in: *Topics in Operator Theory, Systems and Networks, The Rehovot Workshop* (Eds. H. Dym, I. Gohberg), OT 12, Birkhäuser Verlag, Basel; 1984; pp. 241-275.
46. I. Gohberg, M.A. Kaashoek and F. van Schagen,
Non-compact integral operators with semi-separable kernels and the discrete analogues:

- inversion and Fredholm properties, *Integral Equations and Operator Theory* 7 (1984), 642-703.
47. M.A. Kaashoek,
Minimal factorization, linear systems and integral operators, in: *Operator and Function Theory* (Ed. S.C. Power), Reidel Publ. Co., 1985; pp. 41-86.
 48. H. Bart, I. Gohberg and M.A. Kaashoek,
Fredholm theory of Wiener-Hopf equations in terms of realization of their symbols, *Integral Equations and Operator Theory* 8 (1985), 590-613.
 49. M.A. Kaashoek,
Analytic equivalence of the boundary eigenvalue operator function and its characteristic matrix function, *Integral Equations and Operator Theory* 9 (1986), 275-285.
 50. I. Gohberg and M.A. Kaashoek,
On minimality and stable minimality of time-varying linear systems with well-posed boundary conditions, *Int. J. Control* 43 (1986), 1401-1411.
 51. I. Gohberg, M.A. Kaashoek and L. Lerer,
Minimality and irreducibility of time-invariant linear boundary-value systems, *Int. J. Control* 44 (1986), 363-379.
 52. H. Bart, I. Gohberg and M.A. Kaashoek,
Wiener-Hopf factorization, inverse Fourier transforms and exponentially dichotomous operators, *J. Funct. Analysis* 68 (1986), 1-42.
 53. I. Gohberg and M.A. Kaashoek,
Various minimalities for systems with boundary conditions and integral operators, in: *Modelling, Identification and Robust Control* (Eds. C.I. Byrnes and A.Lindquist), North-Holland, 1986; pp. 181-196.
 54. I. Gohberg and M.A. Kaashoek,
Similarity and reduction for time varying linear systems with well-posed boundary conditions, *SIAM J. Control Opt.* 24 (1986), 961-978.
 55. H. Bart, I. Gohberg and M.A. Kaashoek,
Wiener-Hopf equations with symbols analytic in a strip, in: *Constructive methods of Wiener-Hopf factorization* (Eds. I. Gohberg and M.A. Kaashoek), OT 21, Birkhäuser Verlag, Basel; 1986; pp. 39-74.
 56. I. Gohberg, M.A. Kaashoek, L. Lerer and L. Rodman,
On Toeplitz and Wiener-Hopf operators with contourwise rational matrix and operator symbols, in: *Constructive methods of Wiener-Hopf factorization* (Eds. I. Gohberg and M.A. Kaashoek), OT 21, Birkhäuser Verlag, Basel, 1986; pp.75-126.
 57. I. Gohberg and M.A. Kaashoek,
Minimal factorization of integral operators and cascade decompositions, in: *Constructive methods of Wiener-Hopf factorization* (Eds. I. Gohberg and M.A. Kaashoek), OT 21, Birkhäuser Verlag, Basel, 1986; pp. 157-230.

58. H. Bart, I. Gohberg and M.A. Kaashoek,
 Explicit Wiener-Hopf factorization and realization, in: *Constructive methods of Wiener-Hopf factorization* (Eds. I. Gohberg and M.A. Kaashoek), OT 21, Birkhäuser Verlag, Basel, 1986; pp 235-316.
59. H. Bart, I. Gohberg and M.A. Kaashoek,
 Invariants for Wiener-Hopf equivalence of analytic operator functions, in: *Constructive methods of Wiener-Hopf factorization* (Eds. I. Gohberg and M.A. Kaashoek), OT 21, Birkhäuser Verlag, Basel, 1986; pp. 317-355.
60. H. Bart, I. Gohberg and M.A. Kaashoek,
 Multiplication by diagonals and reduction to canonical factorization, in: *Constructive methods of Wiener-Hopf factorization* (Eds. I. Gohberg and M.A. Kaashoek), OT 21, Birkhäuser Verlag, Basel, 1986; pp. 357-372.
61. M.A. Kaashoek and A.C.M. Ran,
 Symmetric Wiener-Hopf factorization of self-adjoint rational matrix functions and realization, in: *Constructive methods of Wiener-Hopf factorization* (Eds. I. Gohberg and M.A. Kaashoek), OT 21, Birkhäuser Verlag, Basel, 1986; pp. 373-409.
62. I. Gohberg and M.A. Kaashoek,
 Minimal representations of semi-separable kernels and systems with separable boundary conditions, *J. Math. Anal. Appl.* 124 (2) (1987), 436-458.
63. I. Gohberg, M.A. Kaashoek and F. van Schagen,
 Szegő-Kac-Achiezer formulas in terms of realization of the symbol, *J. Funct. Analysis* 74 (1987), 24-51.
64. H. Bart, I. Gohberg and M.A. Kaashoek,
 The state space method in problems of analysis, in: *Proceedings First International Conference on Industrial and Applied Mathematics, Contributions from the Netherlands*, CWI 1987; pp. 1-16.
65. I. Gohberg and M.A. Kaashoek,
 An inverse spectral problem for rational matrix functions, *Integral Equations and Operator Theory* 10 (1987), 437-465.
66. I. Gohberg, M.A. Kaashoek and L. Lerer,
 On minimality in the partial realization problem, *Systems and Control Letters* 9 (1987), 97-104.
67. I. Gohberg, M.A. Kaashoek and F. van Schagen,
 Rational contractive and unitary interpolants in realized form, *Integral Equations and Operator Theory* 11 (1988), 105-127.
68. M.A. Kaashoek and H.J. Woerdeman,
 Unique minimal rank extensions of triangular operators, *J. Math. Anal. Appl.* 131 (1988), 501-516.

69. I. Gohberg, M.A. Kaashoek and L. Lerer,
 Nodes and realization of rational matrix functions: minimality and applications, in: *Topics in Operator Theory and Interpolation*, OT 29, Birkhäuser Verlag, Basel, 1988; pp. 181-232.
70. I. Gohberg, M.A. Kaashoek and A.C.M. Ran,
 Interpolation problems for rational matrix functions with incomplete data and Wiener-Hopf factorization, in: *Topics in interpolation theory of rational matrix-valued functions*, OT 33, Birkhäuser Verlag, Basel, 1988; pp. 73-108.
71. I. Gohberg and M.A. Kaashoek,
 Regular rational matrix functions with prescribed pole and zero structure, in: *Topics in interpolation theory of rational matrix-valued functions* (Ed. I. Gohberg), OT 33, Birkhäuser Verlag, Basel, 1988; pp. 109-122.
72. I. Gohberg and M.A. Kaashoek,
 Block Toeplitz operators with rational symbols, in: *Contributions to Operator Theory and its Applications* (Eds. I. Gohberg, J.W. Helton and L. Rodman), OT 35, Birkhäuser Verlag, Basel, 1988; pp. 385-440.
73. I. Gohberg, M.A. Kaashoek and P. Lancaster,
 General theory of regular matrix polynomials and band Toeplitz operators, *Integral Equations and Operator Theory* 11 (1988), 776-882.
74. I. Gohberg, M.A. Kaashoek and H.J. Woerdeman,
 The band method for positive and contractive extension problems: An alternative version and new applications, *Integral Equations and Operator Theory* 12 (1989), 343-382.
75. M.A. Kaashoek and H.J. Woerdeman,
 Minimal lower separable representations: characterization and construction, in: *The Gohberg Anniversary Collection*, Vol.II (Eds. H. Dym, S. Goldberg, M.A. Kaashoek, P. Lancaster), OT 41, Birkhäuser Verlag, Basel; pp. 329-344.
76. I. Gohberg, M.A. Kaashoek and F. van Schagen,
 Eigenvalues of completions of submatrices, *Lin. Multilinear Alg.* 25 (1989), 55-70.
77. I. Gohberg, M.A. Kaashoek and A.C.M. Ran,
 Partial pole and zero displacement by cascade connection, *SIAM Matrix Anal. Appl.* 10 (1989), 316-325.
78. I. Gohberg, M.A. Kaashoek and H.J. Woerdeman,
 The band method for positive and contractive extension problems, *J. Operator Theory* 22 (1989), 109-155.
79. M.A. Kaashoek and J.N.M. Schermer,
 Inversion of convolution equations on a finite interval and realization triples, *Integral Equations and Operator Theory* 13 (1990), 76-103.

80. I. Gohberg, M.A. Kaashoek and H.J. Woerdeman,
 The band method for extension problems and maximum entropy, in: *Signal Processing*, Part I (eds: L. Auslander, T. Kailath, S. Mitter). The IMA Volumes in Mathematics and its Application, Vol. 22, Springer Verlag, 1990; pp.75-94.
81. I. Gohberg, M.A. Kaashoek and A.C.M. Ran,
 Regular rational matrix functions with prescribed null and pole data except at infinity, *Lin. Alg. Appl.* 137/138 (1990), 387-412.
82. A. Ben-Artzi, I. Gohberg and M.A. Kaashoek,
 Invertibility and dichotomy of singular difference equations, in: *Topics in Operator Theory. Ernst D. Hellinger Memorial Volume* (Eds. L. de Branges, I. Gohberg and J. Rovnyak), OT 48, Birkhäuser Verlag, Basel, 1990; pp. 157-184.
83. I. Gohberg, M.A. Kaashoek and A.C.M. Ran,
 Matrix polynomials with prescribed zero structure in the finite complex plane, in: *Topics in Matrix and Operator Theory* (Eds. H. Bart, I. Gohberg and M.A. Kaashoek), OT 50, Birkhäuser Verlag, Basel, 1991; pp. 241-266.
84. I. Gohberg and M.A. Kaashoek,
 The Wiener-Hopf method for the transport equation: a finite dimensional version, in: *Modern Mathematical Methods in Transport Theory* (Eds. W. Greenberg and J. Polewczak), OT 51, Birkhäuser Verlag, Basel, 1991; pp. 20-33.
85. I. Gohberg, M.A. Kaashoek and H.J. Woerdeman,
 A maximum entropy principle in the general framework of the band method. *J. Funct. Analysis* 95 (1991), 231-254.
86. I. Gohberg, M.A. Kaashoek and H.J. Woerdeman,
 A note on extensions of band matrices with maximal and submaximal invertible blocks, *Lin. Alg. App.* 150 (1991), 157-166.
87. I. Gohberg, M.A. Kaashoek and L. Lerer,
 A directional partial realization problem, *Systems and Control Letters* 17 (1991), 305-314.
88. I. Gohberg and M.A. Kaashoek,
 The state space method for solving singular integral equations. In: *Mathematical System Theory. The influence of Kalman* (Ed. A.C. Antoulas), Springer-Verlag, 1991; pp. 509-523.
89. I. Gohberg, M.A. Kaashoek and H.J. Woerdeman,
 The time variant extension problems of Nehari type and the band method. In: *H_∞ -Control Theory* (Eds. E. Mosca, L. Pandolfi), Lecture Notes in Mathematics 1496, Springer-Verlag, 1991; pp 309-323.
90. I. Gohberg, M.A. Kaashoek and H.J. Woerdeman,
 The band method for several positive extension problems of non-band type, *J. Operator Theory* 26 (1991), 191-218.

91. I. Gohberg and M.A. Kaashoek,
Asymptotic formulas of Szegö-Kac-Achiezer type, *Asymptotic Analysis* 5 (1992), 187-220.
92. J.A. Ball, I. Gohberg and M.A. Kaashoek,
Nevanlinna-Pick interpolation for time-varying input-output maps: The discrete case, in: *Time-variant systems and interpolation* (ed. I. Gohberg), OT 56, Birkhäuser Verlag, Basel, 1992; pp. 1-51.
93. J.A. Ball, I. Gohberg and M.A. Kaashoek,
Nevanlinna-Pick interpolation for time-varying input-output maps: The continuous time case, in: *Time-variant systems and interpolation* (ed. I. Gohberg), OT 56, Birkhäuser Verlag, Basel, 1992; pp. 52-89.
94. J.A. Ball, I. Gohberg and M.A. Kaashoek,
Time-varying systems: Nevanlinna-Pick interpolation and sensitivity minimization, in: *Recent Advances in Mathematical Theory of Systems, Control, Networks and Signal Processing I, Proceedings MTNS-91* (eds. H. Kimura, S. Kodama) Mita Press, Tokyo, 1992; pp. 53-58.
95. I. Gohberg, M.A. Kaashoek and L. Lerer,
Minimality and realization of discrete time-varying systems, in: *Time-Variant Systems and Interpolation* (Ed. I. Gohberg), Birkhäuser Verlag, Basel, 1992; pp. 261-296.
96. I. Gohberg, M.A. Kaashoek and A.C.M. Ran,
Factorizations of and extensions to J-unitary matrix functions on the unit circle, *Integral Equations and Operator Theory* 15 (1992), 262-300.
97. I. Gohberg, M.A. Kaashoek and L. Lerer,
Minimal rank completion problems and partial realization, in: *Recent Advances in Mathematical Theory of Systems, Control, Networks and Signal Processing I, Proceedings MTNS-91* (eds. H. Kimura, S. Kodama) Mita Press, Tokyo, 1992; pp. 65-70.
98. J.A. Ball, I. Gohberg and M.A. Kaashoek,
Reduction of the abstract four block problem to a Nehari problem, in: *Continuous and discrete Fourier transforms, extension problems and Wiener-Hopf equations* (ed. I. Gohberg), OT 58, Birkhäuser Verlag, Basel, 1992; pp. 121-141.
99. I. Gohberg and M.A. Kaashoek,
The band extension on the real line as a limit of discrete band extensions, I. The main limit theorem, in: *Operator Theory and Complex Analysis* (Eds. T. Ando and I. Gohberg), OT 59, Birkhäuser Verlag, Basel, 1992; pp. 191-220.
100. I. Gohberg and M.A. Kaashoek,
The band extension on the real line as a limit of discrete band extensions, II. The entropy principle, in: *Continuous and discrete Fourier transforms, extension problems and Wiener-Hopf equations* (ed. I. Gohberg), OT 58, Birkhäuser Verlag, Basel, 1992; pp. 71-92.

101. M.A. Kaashoek, A.C.M. Ran and L. Rodman,
Local minimal factorizations of rational matrix functions in terms of null and pole data:
formulas for the factors, *Integral Equations and Operator Theory* 16 (1993), 98-130.
102. A. Ben-Artzi, I. Gohberg and M.A. Kaashoek,
Invertibility and dichotomy of differential operators on a half line, *J. Dynamics and
Differential Equations* 5 (1) (1993), 1-36.
103. M. A. Kaashoek and S.M. Verduyn Lunel,
Characteristic matrices and spectral properties of evolutionary systems, *Trans Amer.
Math. Soc.* 334 (2) (1992), 479-517.
104. I. Gohberg, M.A. Kaashoek and F. van Schagen,
On the local theory of regular analytic matrix functions, *Lin. Alg. Appl.* 182 (1993),
9-25.
105. J.A. Ball, I. Gohberg and M.A. Kaashoek,
Bitangential interpolation for input-output operators of time-varying systems: The dis-
crete time case, in *New aspects in Interpolation and Completion Theories* (I. Gohberg,
ed.), OT 64, Birkhäuser Verlag, Basel, 1993; pp.33-72.
106. A. Ben-Artzi, I. Gohberg and M.A. Kaashoek,
A time-varying generalization of the canonical factorizaton theorem for Toeplitz oper-
ators, *Indag. Mathem.*, N.S., 4 (1993), 385-405.
107. I. Gohberg, M.A. Kaashoek and H.J. Woerdeman,
The band method for bordered algebras, in: *Contributions to Operator Theory and its
Applications. The Ando Anniversary Volume* (T. Furuta, I. Gohberg, T. Nakazi, eds.),
OT 62, Birkhäuser Verlag, Basel, 1993; pp. 85-97.
108. A. Ben-Artzi, I. Gohberg and M.A. Kaashoek,
Exponentially dominated infinite block matrices of finite Kronecker rank, *Integral
Equations and Operator Theory* 18 (1994), 30-77.
- 108a. J.A. Ball, I. Gohberg and M.A. Kaashoek,
The time-varying two-sided Nudel'man interpolation problem and its solution. In:
Challenges of a generalized system theory (Amsterdam, 1992), KNAW Wetensch. Verh.
Afd. Natuurk. Eerste Reeks, **40**, North-Holland, Amsterdam 1993, pp 45–58.
109. M.A. Kaashoek and J. Kos,
The Nehari-Takagi problem for input-output operators of time-varying continuous time
systems, *Integral Equations and Operator Theory* 18 (1994), 435-467.
110. J.A. Ball, G. Groenewald, M.A. Kaashoek and J. Kim,
Column reduced rational matrix functions with given null-pole data in the complex
plane, *Linear Alg. Appl.* 203/204 (1994), 67-110.

111. I. Gohberg and M.A. Kaashoek,
Projection method for block Toeplitz operators with operator-valued symbols, in: *Toeplitz operators and related topics. The Harold Widom Anniversary Volume* (E.L. Basor and I. Gohberg, Eds), OT 71, Birkhäuser Verlag, Basel, 1994; pp. 79–104.
112. J.A. Ball, I. Gohberg and M.A. Kaashoek,
 H_∞ -control and interpolation for time-varying systems, in: *Systems and Networks: Mathematical Theory and Applications*, Vol. I (Eds. U. Helmke, R. Mennicken, J. Saurer), Akademie Verlag, Berlin, 1994; pp. 33-48.
113. J.A. Ball, I. Gohberg and M.A. Kaashoek,
Bitangential interpolation for input-output maps of time-varying systems: the continuous time case, *Integral Equations and Operator Theory* 20 (1994), 1-43.
114. M. A. Kaashoek and S.M. Verduyn Lunel,
An integrability condition on the resolvent for hyperbolicity of the semigroup, *J. Differential Equations* 112 (1994), 374-406.
115. I. Gohberg, M.A. Kaashoek and L. Rodman,
Local and global analytic equivalence of analytic operator functions, in: *Linear and Complex Analysis Problem Book 3*, Part I, (V. Havin and N.K. Nikolski eds.), Springer Verlag, Berlin, 1994; pp. 205-206.
116. J.A. Ball, I. Gohberg and M.A. Kaashoek,
Input-output operators of J -unitary time-varying continuous time systems, in: *Operator theory in functions spaces and Banach lattices*, The A.C. Zaanen anniversary volume (Eds. C.B. Huijsmans, M.A. Kaashoek and B. de Pagter), OT 75, Birkhäuser Verlag, Basel, 1995; pp. 75–94.
117. J.A. Ball, I. Gohberg and M.A. Kaashoek,
Two-sided Nudelman interpolation for input-output operators of discrete time-varying system, *Integral Equations and Operator Theory* 21 (1995), 174–211.
118. A. Ben-Artzi, I. Gohberg and M.A. Kaashoek,
Discrete nonstationary bounded real lemma in indefinite metrics, the strict contractive case, in: *Operator Theory and boundary eigenvalue problems* (Eds. I. Gohberg and H. Langer), OT 80, Birkhäuser Verlag, 1995; pp. 49–78.
119. J.A. Ball, I. Gohberg and M.A. Kaashoek,
A frequency response function for linear time-varying systems, *Math Control Signals Systems* 8 (1995), 334-351.
120. M.A. Kaashoek,
State space theory of rational matrix functions and applications, Lecture Series 4 in: *Lectures on Operator Theory and its Applications* (Ed. P. Lancaster). Fields Institute Monographs 3, Amer. Math. Soc. 1995; pp. 233–333.

121. I. Gohberg, M.A. Kaashoek and J. Kos,
The asymptotic behaviour of the singular values of matrix powers and applications,
Lin. Alg. Appl. 245 (1996), 55–76.
122. I. Gohberg, M.A. Kaashoek and J. Kos,
Classification of linear time-varying difference equations under kinematic similarity,
Integral Equations and Operator Theory 25 (1996), 55–76.
123. J.A. Ball, I. Gohberg and M.A. Kaashoek,
The band method and Grassmannian approach for completion and extension problems,
in: *Recent developments in operator theory and its applications* (Eds. I. Gohberg, P. Lancaster and P.N. Shivakumar), OT 87, Birkhäuser Verlag, Basel, 1996; pp 17–60.
124. I. Gohberg, M.A. Kaashoek, and L. Lerer,
Factorization of banded lower triangular infinite matrices, *Lin. Alg. Appl.* 247 (1996), 347–357.
125. H. Bart, I. Gohberg, and M.A. Kaashoek,
Wiener-Hopf equations and linear systems, in: *Proc. Symposia Appl. Math.* 52, Amer. Math. Soc. Providence RI, 1996; pp. 115–128
126. C. Foias, A. Frazho, I. Gohberg, and M.A. Kaashoek,
Discrete time-variant interpolation as classical interpolation with an operator argument, *Integral Equations and Operator Theory* 26 (1996), 371–403. Errata in: *Integral Equations and Operator Theory* 28 (1997), 500.
127. M.A. Kaashoek, C.V.M. van der Mee, and A.C.M. Ran,
Weighting operator patterns of Pritchard-Salamon realizations, *Integral Equations and Operator Theory* 27 (1997), 48–70. Errata in: *Integral Equations and Operator Theory* 52 (2005), 451–453.
128. J.A. Ball, I. Gohberg and M.A. Kaashoek,
Nudelman interpolation and the band method, *Integral Equations and Operator Theory* 27 (1997), 253–284.
129. C. Foias, A. Frazho, I. Gohberg, and M.A. Kaashoek,
A time-variant version of the commutant lifting theorem and nonstationary interpolation, *Integral Equations and Operator Theory* 28 (1997), 158–190.
130. I. Gohberg, M.A. Kaashoek and F. van Schagen,
Operator blocks and quadruples of subspaces: classification and the eigenvalue completion problem, *Lin. Alg. Appl.* 269 (1998), 65–89.
131. M.A. Kaashoek and D.R. Pik,
Factorization of lower triangular unitary operators with finite Kronecker index into elementary factors, Proceedings IWOTA-95, OT 103, Birkhäuser Verlag, Basel, 1998; pp. 183–217.

132. C. Foias, A. Frazho, I. Gohberg, and M.A. Kaashoek,
Parametrization of all solutions of the three chains completion problem, *Integral Equations and Operator Theory* 29 (1997), 455–490.
133. D.Z. Arov, M.A. Kaashoek, D.R. Pik,
Minimal and optimal linear discrete time-invariant dissipative scattering systems, *Integral Equations and Operator Theory* 29 (1997), 127–154.
134. I. Gohberg, M.A. Kaashoek and A.L. Sakhnovich,
Canonical systems with rational spectral densities: explicit formulas and applications, *Math. Nachr.* 194 (1998), 93–125.
135. I. Gohberg, M.A. Kaashoek and A.L. Sakhnovich,
Pseudo-canonical systems with rational Weyl functions: explicit formulas and applications, *J. Differential Eqs.* 146 (1998), 375–398.
136. I. Gohberg, M.A. Kaashoek and A.L. Sakhnovich,
Sturm-Liouville systems with rational Weyl functions: explicit formulas and applications, *Integral Equations and Operator Theory* 30 (1998), 338–377.
137. C. Foias, A. Frazho, I. Gohberg, and M.A. Kaashoek,
The maximum principle for the three chains completion problem, *Integral Equations and Operator Theory* 30 (1998), 67–82.
138. D.Z. Arov, M.A. Kaashoek, and D.R. Pik,
Optimal time-variant systems and factorization of operators, I: minimal and optimal systems, *Integral Equations and Operator Theory* 31 (1998), 389–420.
139. M.A. Kaashoek and A.C.M. Ran,
Norm bounds for Volterra integral operators and time varying linear systems with finite horizon, in: *Contributions to operator theory in spaces with an indefinite metric. The Heinz Langer volume*, OT 106, Birkhäuser Verlag, Basel, 1998; pp. 275–290.
140. M.A. Kaashoek, C.V.M. van der Mee, and A.C.M. Ran,
Wiener-Hopf factorization of transfer functions of extended Pritchard-Salamon realizations, *Math. Nachr.* 196 (1998), 71–102.
141. M.A. Kaashoek and C.G. Zeinstra,
The band method and generalized Carathéodory-Toeplitz interpolation at operator points, *Integral Equations and Operator Theory* 33 (1999), 175–210.
142. I. Gohberg, and M.A. Kaashoek,
State space methods for analysis problems involving rational matrix functions, in: *Dynamical systems, control, coding, computer vision*, (Eds. G. Picci and D.S. Gilliam), Birkhäuser Verlag, 1999; pp. 93–110.
143. I. Gohberg, M.A. Kaashoek and J. Kos,
Classification of linear time-varying periodic difference equations under periodic or kinematic similarity, *SIAM Matrix Analysis* 21 (2000), 481–507.

144. D.Z. Arov, M.A. Kaashoek, D.R. Pik,
Optimal time-variant systems and factorization of operators, II: Factorization, *J. Operator Theory* 43 (2000), 263–294.
145. I. Gohberg, M.A. Kaashoek and A.L. Sakhnovich,
Canonical systems on the line with rational spectral densities: explicit formulas, in: *Operator Theory and Related Topics, Volume I of the Proceedings of the Mark Krein International Conference, Odessa, Ukraine, August 1 – 22, 1997*, OT 117, Birkhäuser Verlag, Basel, 2000; pp. 127 – 139.
146. I. Gohberg, M.A. Kaashoek and F. van Schagen,
Finite section method for linear ordinary differential equations, *J. Differential Eqs.* 163 (2000), 312–334.
147. D. Alpay, I. Gohberg, M.A. Kaashoek and A.L. Sakhnovich,
Direct and inverse scattering problem for canonical systems with a strictly pseudo-exponential potential, *Math. Nach.* 215 (2000), 5–31.
148. M.A. Kaashoek and H.J. Woerdeman, ,
Positive extensions and diagonally connected patterns, in: *Recent Advances in Operator Theory*, OT 124, Birkhäuser Verlag, Basel, 2001; pp. 287 – 305.
149. I. Gohberg, M.A. Kaashoek and A.L. Sakhnovich,
Bound states of a canonical system with a pseudo-exponential potential, *Integral Equations and Operator Theory* 40 (2001), 268–277.
150. C. Foias, A.E. Frazho, and M.A. Kaashoek,
A weighted version of almost commutant lifting, in: *Systems, approximation, singular integral operators and related topics (IWOTA-2000)*, OT 129, Birkhäuser Verlag, Basel, 2001; pp. 311 – 340.
151. I. Gohberg, M.A. Kaashoek and F. van Schagen,
Finite section method for difference equations, in: *Linear operators and matrices. The Peter Lancaster Anniversary Volume*, OT 130, Birkhäuser Verlag, Basel, 2001; pp. 197 – 207.
152. C. Foias, A.E. Frazho, and M.A. Kaashoek,
Relaxation of metric constrained interpolation and a new lifting theorem, *Integral Equations and Operator Theory*, 42 (2002), 253–310.
153. A.E. Frazho, and M.A. Kaashoek,
A band method approach to a positive expansion problem in a unitary dilation setting, *Integral Equations and Operator Theory*, 42 (2002), 311–371.
154. I. Gohberg, M.A. Kaashoek and A.L. Sakhnovich,
Scattering problems for a canonical system with a pseudo-exponential potential, *Asymptotic Analysis*, 29 (2002), 1–38.

155. I. Gohberg, M.A. Kaashoek and F. van Schagen,
 Finite section method for linear ordinary differential equations on the full line, in: *Interpolation theory, Systems Theory and related topics. The Harry Dym Anniversary Volume*, OT 134, Birkhäuser Verlag, Basel, 2002, pp. 209–224.
156. I. Gohberg, M.A. Kaashoek and F. van Schagen,
 Finite section method for linear ordinary differential equations revisited, in: Toeplitz matrices and singular integral equations. The Bernd Silbermann Anniversary Volume, OT 135, Birkhäuser Verlag, Basel, 2002, pp. 183–191.
- 157 C. Foias, A.E. Frazho, and M.A. Kaashoek,
 Contractive liftings and the commutator, *C.R.Acad.Sci.Paris Ser. I* 335 (2002), 1–6.
- 158 I. Gohberg, M.A. Kaashoek and I. Spitkovsky,
 An overview of matrix factorization theory and operator applications, in *Factorization and integrable systems. Summer School in Faro, Portugal, September 2000*, OT 141, Birkhäuser Verlag, Basel, 2003, pp. 1–102.
- 159 C. Foias, A.E. Frazho, and M.A. Kaashoek,
 The distance to intertwining operators, contractive liftings and a related optimality result, *Integral Equations and Operator Theory*, **25** (2003), 71–89.
- 160 I. Gohberg, M.A. Kaashoek and F. van Schagen,
 On inversion of convolution integral operators on a finite interval, in: *Operator Theoretical Methods and Applications to Mathematical Physics. The Erhard Meister Memorial Volume*, OT 147, Birkhäuser Verlag, Basel, 2004, pp. 277–285.
- 161 I. Gohberg, M.A. Kaashoek and F. van Schagen,
 On inversion of finite Toeplitz matrices with elements in an algebraic ring, *Lin. Alg. Appl.* **385** (2004), 381–389.
- 162 A.E. Frazho, and M.A. Kaashoek,
 A Naimark dilation perspective of Nevanlinna-Pick interpolation, *Integral Equations and Operator Theory* **49** (2004), 323–378.
- 163 H. Bart, I. Gohberg, M.A. Kaashoek and A.C.M. Ran,
 Schur complements and state space realizations, *Lin. Alg. Appl.* **399** (2005), 203–224.
- 164 I. Gohberg, M.A. Kaashoek and A.L. Sakhnovich,
 Taylor coefficients of a pseudo-exponential potential and the reflection coefficient of the corresponding canonical system, *Math. Nachr.* **12/13** (2005), 1579–1590.
- 165 D.Z. Arov, M.A. Kaashoek, D.R. Pik,
 Minimal representations of a contractive operator as a product of two bounded operators, *Acta Sci. Math (Szeged)* 71 (2005), 313–336.
- 166 G.J. Groenewald, and M.A. Kaashoek,
 A new proof of an Ellis-Gohberg theorem on orthogonal matrix functions related to

- the Nehari problem, in: *Recent Advances in Operator Theory and its Applications. Proceedings IWOTA 2003*, OT **160**, Birkhäuser Verlag, Basel, 2005, pp. 217–232.
- 167 I. Gohberg, I. Haimovici, M.A. Kaashoek, and L. Lerer,
The Bezout integral operator: main property and underlying abstract scheme, in: *The state space method. Generalizations and applications*, OT **161**, Birkhäuser Verlag, Basel, 2005, pp. 225–270.
- 168 O. Iftime, M.A. Kaashoek, and A. Sasane,
A Grassmannian band method approach to the Nehari-Takagi problem, *J. Math. Anal. Appl.*, **310** (2005), 97–115.
- 169 M.A. Kaashoek, Metric constrained interpolation and control theory, Notices South African Mathematical Society **36** (2005), 114–143.
- 170 M.A. Kaashoek, and A.L. Sakhnovich,
Discrete skew selfadjoint canonical systems and the isotropic Heisenberg magnet model, *J. Funct. Anal.* **228** (2005), 207–233.
- 171 G.J. Groenewald and M.A. Kaashoek,
A Gohberg-Heinig type inversion formula involving Hankel operators, in: *Interpolation, Schur functions and moment problems*, OT **165**, Birkhäuser Verlag, Basel, 2005, pp. 291–302.
- 172 D.Z. Arov, M.A. Kaashoek, D.R. Pik,
The Kalman-Yakubovich-Popov inequality for discrete time systems of infinite dimension, *J. Operator Theory* **55** (2006), 393–438.
- 173 A.E. Frazho, S. ter Horst, and M.A. Kaashoek,
Coupling and relaxed commutant lifting, *Integral Equations and Operator Theory*, **54** (2006), 33–67.
- 174 A.E. Frazho, S. ter Horst, and M.A. Kaashoek,
All solutions to the relaxed commutant lifting problem, *Acta Sci. Math. (Szeged)* **72** (2006), 299–318.
- 175 I. Gohberg, M.A. Kaashoek, and L. Lerer,
Quasi-commutativity of entire matrix functions and the continuous analogue of the resultant, in: *Modern operator theory and applications. The Igor Borisovich Simonenko Anniversary Volume*, OT **170**, Birkhäuser Verlag, Basel, 2007, pp. 101–106.
- 176 I. Gohberg, M.A. Kaashoek, and L. Lerer,
The continuous analogue of the resultant and related convolution operators, in: *The extended field of operator theory* (Ed. M.A. Dritschel), OT **171**, Birkhäuser Verlag, Basel, 2007, pp. 107–127.
- 177 I. Gohberg, M.A. Kaashoek, and L. Lerer,
On a class of entire matrix function equations. *Lin. Alg. Appl.* **425** (2007), 434–442.

- 178 I. Gohberg, M.A. Kaashoek, and L. Lerer,
 The inverse problem for Krein orthogonal matrix functions, *J. Funct. Anal. Appl.*, **41** (2007), 115–125.
- 179 A.E. Frazho, S. ter Horst, and M.A. Kaashoek,
 Relaxed commutant lifting: an equivalent version and a new application, in *Recent Advances in Operator Theory and Applications*, OT **187**, Birkhäuser Verlag, Basel, 2009, pp. 157–168.
- 180 I. Gohberg, M.A. Kaashoek, and L. Lerer,
 The resultant for regular matrix polynomials and quasi commutativity, *Indiana University Mathematics Journal*, **57** (2008), 2783–2813.
- 181 D. Alpay, I. Gohberg, M.A. Kaashoek, L. Lerer, and A.L. Sakhnovich,
 Krein systems, in: *Modern Analysis and Applications. The Mark Krein Centenary Conference*, Vol. 2, OT **191**, Birkhäuser Verlag, Basel, 2009, pp. 19–36.
- 182 M.A. Kaashoek, L. Lerer, and M. Margulis,
 Krein orthogonal entire matrix functions and related Lyapunov equations: a state space approach, *Integral Equations and Operator Theory*, **65** (2009), 223–242.
- 183 A.E. Frazho, S. ter Horst, and M.A. Kaashoek,
 A time-variant norm constrained interpolation problem arising from relaxed commutant lifting, in: *Operator algebras, operator theory and applications*, OT **195**, Birkhäuser Verlag, Basel, 2010, pp. 139–166.
- 184 A.E. Frazho and M.A. Kaashoek,
 A Contractive Operator View on an Inversion Formula of Gohberg-Heinig, in: *Topics in Operator Theory I. Operators, matrices and analytic functions*, OT **202**, Birkhäuser Verlag, Basel, 2010, pp. 223–252.
- 185 M.A. Kaashoek and L. Lerer,
 Quasi commutativity of regular matrix polynomials: Resultant and Bezoutian, in: *Topics in Operator Theory I. Operators, matrices and analytic functions*, OT **202**, Birkhäuser Verlag, Basel, 2010, pp. 297–314.
- 186 A.E. Frazho, M.A. Kaashoek, and A.C.M. Ran,
 The non-symmetric discrete algebraic Riccati equation and canonical factorization of rational matrix functions on the unit circle, *Integral Equations and Operator Theory* **66** (2010), 215–229.
- 187 D. Alpay, I. Gohberg, M.A. Kaashoek, L. Lerer, and A.L. Sakhnovich,
 Krein systems and canonical systems on a finite interval: accelerants with a jump discontinuity at the origin and continuous potentials, *Integral Equations and Operator Theory* **68** (2010), 115–150.

- 188 A.E. Frazho, M.A. Kaashoek, and A.C.M. Ran,
 Right invertible multiplication operators and stable rational matrix solutions to an associate Bezout equation, I: the least squares solution, *Integral Equations and Operator Theory* **70** (2011), 395–418.
- 189 M.A. Kaashoek and F. van Schagen,
 On inversion of certain structured linear transformations related to block Toeplitz matrices, in: *A panorama of modern operator theory and related topics* OT **218**, Birkhäuser Verlag, Basel, 2012, pp. 377–386.
- 190 A.E. Frazho, S. ter Horst, and M.A. Kaashoek,
 Optimal Solutions to Matrix-valued Nehari Problems and Related Limit Theorems, in: *Mathematical Methods in Systems, Optimization, and Control. Festschrift in honor of J. William Helton*, OT **222**, Birkhäuser Verlag, Basel, 2012, pp. 151–172.
- 191 A.E. Frazho, M.A. Kaashoek, and A.C.M. Ran,
 Right invertible multiplication operators and stable rational matrix solutions to an associate Bezout equation, II: Description of all solutions, *Operators and Matrices* **6** (2012), 833–857.
- 192 M.A. Kaashoek and F. van Schagen,
 Ellis-Gohberg identities for certain orthogonal functions I: block matrix generalizations and ℓ^2 -setting, *Indagationes Math.* **23** (2012), 777–795.
- 193 M.A. Kaashoek and L. Lerer,
 The band method and inverse problems for orthogonal matrix functions of Szegő-Kreĭn type, *Indagationes Math.* **23** (2012), 900–920.
- 194 A.E. Frazho and M.A. Kaashoek,
 Canonical factorization of rational matrix functions. A note on a paper by P. Dewilde, *Indagationes Math.* **23** (2012), 1154–1164.
- 195 A.E. Frazho, M.A. Kaashoek, and A.C.M. Ran,
 Rational Matrix Solutions of a Bezout Type Equation on the Half-plane, in: *Advances in Structured Operator Theory and Related Areas. The Leonid Lerer Anniversary Volume*, Oper. Theory Adv. Appl. **237**, Springer Basel AG 2012, pp. 145–160.
- 196 M.A. Kaashoek and F. van Schagen,
 Inverting structured operators related to Toeplitz plus Hankel operators, in: *Advances in Structured Operator Theory and Related Areas. The Leonid Lerer Anniversary Volume*, Oper. Theory Adv. Appl. **237**, Springer Basel AG 2012, pp. 161–187.
- 197 M.A. Kaashoek and L. Lerer,
 On a class of matrix polynomial equations, *Lin. Alg. Appl.* **439** (2013), 613–620.
- 198 M.A. Kaashoek and F. van Schagen,
 Ellis-Gohberg identities for certain orthogonal functions II: Algebraic setting and asymmetric versions, West Memorial Issue, *Proc. Math. Royal Irish Acad.*, **113A** (2) (2013), 107–130.

- 199 A.E. Frazho, S. ter Horst, and M.A. Kaashoek, State space formulas for stable rational matrix solutions of a Leech problem, *Indagationes Math.* **25** (2014) 250–274.
- 200 M.A. Kaashoek and J. Rovnyak, On the preceding paper by R. B. Leech, *Integral Equ. Oper. Theory* **78** (1) (2014), 75–77.
- 201 A.E. Frazho, S. ter Horst, and M.A. Kaashoek,
State space formulas for a suboptimal rational Leech problem I: Maximum entropy solution, *Integral Equ. Oper. Theory* **79** (2014), 533–553.
- 202 M.A. Kaashoek and F. van Schagen,
The inverse problem for Ellis-Gohberg orthogonal matrix functions, *Integral Equ. Oper. Theory* **80** (2014), 527–555.
- 203 A.E. Frazho, S. ter Horst, and M.A. Kaashoek,
State space formulas for a suboptimal rational Leech problem II: Parametrization of all solutions, *Oper. Theory Adv. Appl.* **244** (2015), 149–179.