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Doctor of Philosophy

by

Your Name

Reg. No: 162400001

under the guidance of

Dr. Guide Name

Professor of Mathematics

Department of Mathamtics

Your Institute Name

Tamil Nadu, India

March 2019



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			Department of Mathematics
			Your Institute Name
			Tamil Nadu, India

Abstract

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Keywords: generalized inverse; g-inverse; outer inverse; regular element; minus partial order; absorption law; semigroup; associative ring; core-EP inverse; core-EP generalized inverse; bordering technique; iterative method;

AMS subject classifications: 2010 MSC: 15A09; 18B40; 06A06; 05C25; 20M99; 20M17

Acknowledgements

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The acknowledgments and the people to thank go here, don't forget to include your project advisor...

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List of Abbreviations

LAH List Abbreviations Here

WSF What (it) Stands For

Physical Constants

List of Symbols

- S Semigroup with or without involution
- a^- Generalized inverse of a
- $\{a^-\}$ Set of all generalized inverses of a
 - $a^{=}$ Outer inverse of a
- $\{a^{=}\}$ Set of all outer inverses of a
 - a_r^- Reflexive generalized inverse of a
 - a^{\dagger} Drazin inverse of a

Dedicated to my Mother

Ms. Elizebeth Rani

Chapter 1

Introduction

Here you start your introduction...

You can cite the articles using \cite{AR87}.. For example, [1] gives the article number,\citeauthor{AR87} gives the article author (Eg. Anstreicher and Rothblum), \citeyear{AR87} gives the year of the article (Eg 1987).

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1.1 Publications

- 1. X. Sheng and G. Chen, "A note of computation for M-P inverse of a," *International Journal of Computer Mathematics*, vol. 87, no. 10, pp. 2235–2241, 2010
- 2. K. M. Anstreicher and U. G. Rothblum, "Using gauss-jordan elimination to compute the index, generalized nullspaces, and drazin inverse," *Linear Algebra and its Applications*, vol. 85, pp. 221 –239, 1987, ISSN: 0024-3795

1.2 Conference Presentations

- 1. K. M. Prasad and M. D. Raj, "Computational methods to find core-EP inverse," in *International Conference on Linear Algebra and Its Applications*, Organished by Department of Statistics, MAHE, Manipal, Dec. 2017
- 2. K. M. Prasad and M. D. Raj, "Iterative method to find core-EP inverse," in *Manipal Student Research Colloquium 2017*, Organized by Manipal University, Jaipur, India., Mar. 2017

Chapter 2

Title of Chapter 2

The contents of this chapter are drawn from the following article.

1. K. M. Anstreicher and U. G. Rothblum, "Using gauss-jordan elimination to compute the index, generalized nullspaces, and drazin inverse," *Linear Algebra and its Applications*, vol. 85, pp. 221 –239, 1987, ISSN: 0024-3795

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2.1 This is your section 1 of Chapter 2

Use longtable environment for big tables..

For example,

Table 2.1: Feasible triples for highly variable Grid, MLMMH.

Time (s)	Triple chosen	Other feasible triples
0	(1, 11, 13725)	(1, 12, 10980), (1, 13, 8235), (2, 2, 0), (3, 1, 0)
2745	(1, 12, 10980)	(1, 13, 8235), (2, 2, 0), (2, 3, 0), (3, 1, 0)
5490	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
8235	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
10980	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
13725	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
16470	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
19215	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
21960	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
24705	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
27450	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
30195	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
32940	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
35685	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
38430	(1, 13, 10980)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
41175	(1, 12, 13725)	(1, 13, 10980), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
43920	(1, 13, 10980)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
46665	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
49410	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
52155	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
54900	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
57645	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
60390	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
63135	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
		Continued on next page

Table 2.1 – continued from previous page

Time (s)	Triple chosen	Other feasible triples
65880	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
68625	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
71370	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
74115	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
76860	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
79605	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
82350	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
85095	(1, 12, 13725)	(1, 13, 10980), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
87840	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
90585	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
93330	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
96075	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
98820	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
101565	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
104310	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
107055	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
109800	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
112545	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
115290	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
118035	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
120780	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
123525	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
126270	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
129015	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
131760	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
134505	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
137250	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
139995	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
142740	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
145485	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
		Continued on next page

Table 2.1 – continued from previous page

Time (s)	Triple chosen	Other feasible triples
148230	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
150975	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
153720	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
156465	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
159210	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
161955	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
164700	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)

Finally, cite the table using Table 2.1 whereever you want. Thats all...

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3.1 How to add Figures..

Add your images in 'images' folder. Then refer them here as given in the following..

 $f(x) = \sin(2x)$ $f(x) = \sin\left(\frac{x}{2}\right)$ $f(x) = \sin(x)$

Figure 3.1: This is the graph of Sin

In the given Figure 3.1 the graph of sin x is shown.

Chapter 4

Here is the Forth Chapter...

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Chapter 5

Summary and Future Scope

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Appendix A

Implementation Details

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