

大学数学

2017 年 10 月

第 33 卷 第 5 期(总第 193 期)

目 录

研究综述

非交换非结合的多复变 任广斌(1)

专题研究

无序和的一个注记 董建新, 韩凯凯(8)
 α 尺度三维八向加细小波尺度函数的构造算法 张 静, 黄允浒, 关惠惠, 马 静(12)
有限域上 Carlitz 方程的解数 闻彬彬, 黄 华(24)
基于中心极限定理的信源序列的霍夫曼编码方法 彭凯军, 张明亮, 蔡有成, 沈路航(28)
破碎化景观下疾病入侵对捕食者-食饵系统的影响 胡月玲(34)

教学改革

《概率论与数理统计》课程的“慕课”建设探讨 熊莲花, 于春华, 袁 革(39)

教学研究

n 阶常系数线性微分方程和 n 阶欧拉方程的积分因子解法 宁荣健, 时 军(44)
几道大学生数学竞赛题的注记 唐 烁, 夏成林, 于 莉(49)
二阶非对称实矩阵合同的充要条件 周江涛, 孙胜先(52)
线性矩阵方程与线性矩阵方程组 田代军, 纪 颖(56)
关于工科微积分中极限理论教学的讨论 范周田, 张汉林(62)
有限个真子空间的并的进一步探讨 胡建华, 张阳春, 曾博文, 王资敏(67)
惠更斯问题的一种新解法 刘春平, 刘晓平(71)
一个数学期望不等式的探讨 刘继成, 任佳刚(76)
关于含双参量反常积分的分析性质 韩淑霞, 黄永忠, 刘继成, 吴 洁(79)
Cauchy 积分中值定理逆问题的注记 王良成, 马秀芬, 杨明硕(86)
一道常微分方程的三种解法 关丽娜, 曹丽华(92)
一道考研题的推广及其几种证法 陈现平(96)
手性的数学模型及应用 林爱津, 李建平, 侯 虎(100)

学生习作

b -距离空间中 $\alpha-(\varphi, \psi)$ 压缩重合点定理 李淑方, 贺 飞, 杜丽蔓(106)
具有一般发生率的疟疾传播模型的稳定性研究 张宇青, 杨 瑜(112)
复合函数的可积性及应用 梁婉婉, 刘继成(118)
被积函数含间断点的变限积分的连续可微性 童旭辉, 张海亮, 杨传胜(123)

COLLEGE MATHEMATICS

Vol. 33 No. 5 (Serial No. 193) Oct. 2017

CONTENTS

Non-commutative and Non-associative Several Complex Variables	REN Guang-bin(1)
One Note of Unordered Sums	DONG Jian-xin ,HAN Kai-kai(8)
Construction Algorithm of a Scale Three-Dimensional Eight-Direction Fractional Wavelet Scale Function	 ZHANG Jing ,HUANG Yun-hu ,GUAN Hui-hui ,MA Jing(12)
The Number of Solutions of Carlitz's Equation	WEN Bin-bin ,HUANG Hua(24)
Huffman Coding Method for Source Sequence Based on Central Limit Theorem	 PENG Kai-jun ,ZHANG Ming-liang ,CAI You-cheng ,SHEN Lu-hang(28)
Effects of Disease Invasion on the Predator-prey System under Fragmented Landscapes	HU Yue-ling(34)
The Discussion of the Theory of Probability and Mathematical Statistics Course in the MOOC Construction	 XIONG Lian-hua ,YU Chun-hua ,YUAN Ge(39)
The Integral Factor General Solution of the n -order Ordinary Coefficient of Linear Differential Equations and the n -order Euler's Equation	NING Rong-jian ,SHI Jun(44)
A Note on Several Problems in International Mathematics Competition for College Students	 TANG Shuo ,XIA Cheng-lin ,YU Li(49)
A Necessary and Sufficient Conditions on the Congruence of Non-symmetric Real Matrices	 ZHOU Jiang-tao ,SUN Sheng-xian(52)
Linear Matrix Equation and Linear Matrix Equation Group	TIAN Dai-Jun ,JI Ying(56)
On Limit Theory Teaching in Calculus	FAN Zhou-tian ,ZHANG Han-lin(62)
A Further Discussion on the Union of Finite Proper Subspaces	 HU Jian-hua ,ZHANG Yang-chun ,ZENG Bo-wen ,WANG Zi-min(67)
A New Solving Method of Huygens Problem	LIU Chun-ping ,LIU Xiao-ping(71)
A Discussion of Inequality on Mathematical Expectation	LIU Ji-cheng ,REN Jia-gang(76)
Analytical Properties of Generalized Integrals Containing Two Parameters	 HAN Shu-xia ,HUANG Yong-zhong ,LIU Ji-cheng ,WU Jie(79)
A Note on Inverse Problem of Cauchy's Integral Mid-Value Theorem	 WANG Liang-Cheng ,MA Xiu-fen ,YANG Ming-Shuo(86)
Three Methods for Solving an Ordinary Differential Equation	GUAN Li-na ,CAO Li-hua(92)
Generalizations and Proofs of a Postgraduate Examination Problem	CHEN Xian-Ping(96)
A Mathematical Model of Chirality and Applications	LIN Ai-jin ,LI Jian-ping ,HOU Hu(100)
A Coincidence Point Theorem for α - (φ, ψ) Contractive Mappings in b -metric Spaces	 LI Shu- fang ,HE Fei ,DU Li- man(106)
Research on the Stability of a Malaria Transmission Model with General Incidence	 ZHANG Yu-qing ,YANG Yu(112)
On the Integrability of Composite Function and its Applications	LIANG Wan-wan ,LIU Ji-cheng(118)
Continuous Differentiability of Variational Limit Integral of Discontinuous Function with Discontinuous Points	 TONG Xu-hui ,ZHANG Hai-liang ,YANG Chuan-sheng(123)