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Библиографический указатель

по теме

Дифференциальные уравнения в абстрактных пространствах

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Библиографический Указатель по теме "Дифференциальные уравнения в абстрактных пространствах". – М.: МГУ, 2001. - 225 с.

Библиографический указатель охватывает актуальнейшую области математики – теорию полугрупп операторов, теорию косинус оператор-функций, дифференциальные уравнения в банаховых пространствах и приближенные методы решения дифференциальных уравнений в абстрактных пространствах. Включены также источники касающиеся теория некорректных задач Коши (обратная задача теплопроводности).

Предназначено для студентов старших курсов и аспирантов, специализирующихся в области фундаментальной и прикладной математики.

НИВЦ МГУ, 2001

Предисловие

Интенсивное развитие теории обыкновенных дифференциальных уравнений в абстрактных пространствах традиционно отмечалось вехами фундаментальных обзоров – [203], [75], [1383], [2052] и т. д. При этом уместно отметить, что в серии изданий ВИНИТИ по фундаментальным наукам за последние десятилетия выкристаллизовывается удачный стиль изложения материала с подробными формулировками результатов. Это позволило легко прослеживать тенденции развития дисциплин даже начинающим ученым.

Следуя упомянутым традициям и идеям ВИНИТИ, авторы начали работу над серией книг по теории дифференциальных уравнений в банаховых пространствах – [76], [77], пытаясь добиться замкнутого на сегодняшний день изложения материала.

Сразу после 1991 года в силу известных причин доступ российского читателя к иностранной научной литературе резко сократился. По-видимому, книга [175] была последним зарубежным источником по теории C_0-полугрупп, который авторы сумели сделать доступным широкому кругу российских читателей,

К сожалению, ограниченность объема подготовленных и готовящихся к изданию книг не позволяет включать в список библиографии большой объем работ, которые касаются специальных вопросов или приложений и которые непосредственно не отражаются в тексте.

Кроме того, замкнутое изложение приводит к постоянным перекрестным ссылкам на литературные источники предыдущих томов, что усложняет подготовку последующих изданий.

Поэтому возникла идея создания единого библиографического указателя по теории полугрупп операторов и косинус оператор-функций, который охватывал бы литературные источники, в основном, начиная с 1983 года, т.е. после известного обзора [203], поскольку обзор [75] по техническим причинам включал только часть библиографии, имеющейся у авторов. Статья [203] не содержала подробного списка литературы по косинус оператор-функциям, C_0-полугруппам, проинтегрированным полугруппам операторов, а также огромного пласта работ по численному анализу дифференциальных уравнений в абстрактных пространствах. Поэтому собранный воедино данный библиографический указатель безусловно является весьма полезным для широкой аудитории исследователей.

При создании библиографического указателя использовались материалы реферативных журналов РЖмат, Zentralblatt für Mathematiks, Math. Rewiews, а также возможности сети Internet.

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