



বাংলাদেশ পরমাণু শক্তি কমিশন
BANGLADESH ATOMIC ENERGY COMMISSION

**A Database Library Management System for the
Atomic Energy Centre Library**

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Abstract

This is a Library Management Program for the management of the books, journals and other periodicals of the library of the Atomic Energy Centre, Dhaka (AECD). One can add books and/or journals, edit (i.e. change) the information of the books/journals, and have different reports of the books and journals. This is a user friendly database management program suitable for the management of any library similar to the one of AECD. The program may be utilized by the other establishments of the Bangladesh Atomic Energy Commission for the management of their libraries. A readers and/or borrower's register can also be maintained using this program. Reports on the individual borrower of the books can also be made as well as the complete report of the borrowers.

1. Introduction

Library management system generally requires the use of several data files. The two main files, usually referred to as the master files, one for the books and the other for the journals keeps track of the quantity of each book, journal and other periodicals presently available in the library. The master file for the books also keeps track of the location of each book in the library, its accession number, the date of accession, the cost of the book, the quantity of a particular book kept in the library, the names of the publishers, place of publication and date, etc. The master file also keeps track of the availability status of the particular book. These information allows the user to locate a book quickly, get a complete listing of the books, get a listing of books of any particular subject and/or any particular publisher and perform other similar books control tasks. The master file for the journals keeps track of the name of the journal, the names of the publishers, the place of publication, year, kind of journal and current status of the journal. It also keeps track of the volumes available and the lack of volumes and also a note on the journal. These information allows the user to locate a journal quickly, get a listing of journals and perform other journal control tasks. One of the data files used, may also be referred to as the master file, keeps track of the books along with other information of the borrower's information i.e. borrower's register.

The system developed allows the management to keep track of all books, journal and other periodicals available in the library, its title, the unit price, the number of copies on hand, its location in the library, the name of publisher and its place of publication with year, the subject, the name of the author and joint authors, its edition, its volume, series, the accession number, the date of accession, etc along with a note or a remark, if any. Whenever the library management decides to carry a new book or a journal, the item will be assigned a unique call number and added to the master database. The system will provide the user with the reports of all books in the library, the books of a particular subject, the available current journals, etc. The system will also provide with the listing of the books issued by the borrowers.

2. Database design

In the developed management system "FLIBRARY.DBF" database file is used as the master file for the books. The master database file "FLIBRARY.DBF" for the books contains all the information about the books available in the library. The master database file "LJOURNAL.DBF" for the journals contains the information about the journals available in the library. The database file "LBISSUER.DBF" contains the information of the readers/borrowers along with the information of the books issued. This file also contains the date of issue as well as the date of return of the book. The structure of the master database file "FLIBRARY.DBF" and "LJOURNAL.DBF" with a brief description of each field's contents is shown in Fig.1(a) and in Fig.1(b). The structure of the other database file "LBISSUER.DBF" is shown in Fig.1(c).

Field	Field Name	Type	Width	Description
1	CALL_NO	Character	15	Call number of the book.
2	M_ENTRY	Character	30	Name of the first Author
3	TITLE	Character	40	Title of the book.
4	SUBTITLE	Character	40	Sub Title of the book.
5	J_AUTHORS	Character	50	Name of the joint authors.
6	EDITION	Character	10	Edition of the book.
7	PLACE_PUBL	Character	20	Publication Place of book.
8	PUBLISHER	Character	30	Publisher of the book.
9	YEAR_PUBL	Numeric	5	Year of Publication of book.
10	NO_PAGES	Numeric	5	Total no. of pages of book.
11	VOLUME	Numeric	5	Volume of the book.
12	SERIES	Character	5	Series of the book.
13	NO_COPIES	Numeric	5	No. of copies available.
14	ILLUSTRATI	Character	30	Illustration from the book.
15	BIBLIOGRAP	Character	23	Bibliography of the book.
16	ACCESSION	Character	10	Accession no. of the book.
17	DATE_ACCES	Date	8	Date of accession of book.
18	SUBJECT	Character	20	Subject the book belongs
19	LOCATION	Character	10	Location of the book
20	U_PRICE	Numeric	7	Unit price of the book
21	AVAILABLE	Logical	1	Presently available or not
22	NOTE	Memo	10	Note/comment on the book

Fig. 1(a) : Structure of the database FLIBRARY.DBF.

Field	Field Name	Type	Width	Description
1	CALL_NO	Character	15	Call number of Journal.
2	NAME	Character	45	Name of the Journal.
3	PUBLISHER	Character	30	Publisher of Journal.
4	PLACE_PUBL	Character	25	Place of Publication.
5	YEAR_PUBL	Numeric	4	Year of Publication.
6	FREQUENCY	Character	15	Frequency of journal.
7	AVAIL_VOL	Character	70	Available volumes.
8	LACKS_VOL	Character	70	Lacks of volumes.
9	CUR_STATUS	Logical	1	Current status of journal.
10	CUR_VOL	Character	30	Current volume, series, etc.
11	INDEX	Character	30	Index no. and location.
12	REMARKS	Character	70	Note or ramarks on journal.

Fig. 1(b) : Structure of the database LJOURNAL.DBF.

Field	Field Name	Type	Width	Description
1	CODE_NO	Character	10	Code number of Borrower.
2	NAME	Character	25	Name of the Borrower.
3	DESIGNAT	Character	5	Designation of Borrower.
4	DIV_INST	Character	15	Division and Institute.
5	BookISSUED	Character	40	Name of book issued.
6	AUTHOR	Character	30	Name of author.
7	CALL_NO	Character	15	Call no. of book.
8	ACCESSION	Numeric	10	Accession no. of book.
9	DATE_ISSUE	Date	8	Date of issue.
10	DATEREURN	Date	8	Date of return.
11	REMARKS	Character	50	Remarks, if any.

Fig. 1(c) : Structure of the database LBISSUER.DBF.

To keep the data file in a particular order , as well as to speed up the process of looking up and updating / editing the books and journals an index file of the *key* field is created. It is important to define a key field that is used to relate the various files to one another in the system. The key field is unique for every record in the master file and other files with the identical name, type and width. The key field is the identifying code in most software systems. In the developed library management system this code is the Call

Number : each book and journal of the library carries has a unique call number. In case of borrowers' database more than one key fields are used, namely, accession number, call number and code number.

3. Software Design

The design of the software structure is needed after designing the database for the library management system. One may wish to perform the various major tasks using different individual programs. The library management may be responsible for managing the books and journal library, checking the status of the books and journals, checking the current status of the journals, checking the position of the borrowers register, and so forth. In the present developed system three separate but related systems, with the overall structure as shown in Fig.2, has been developed.

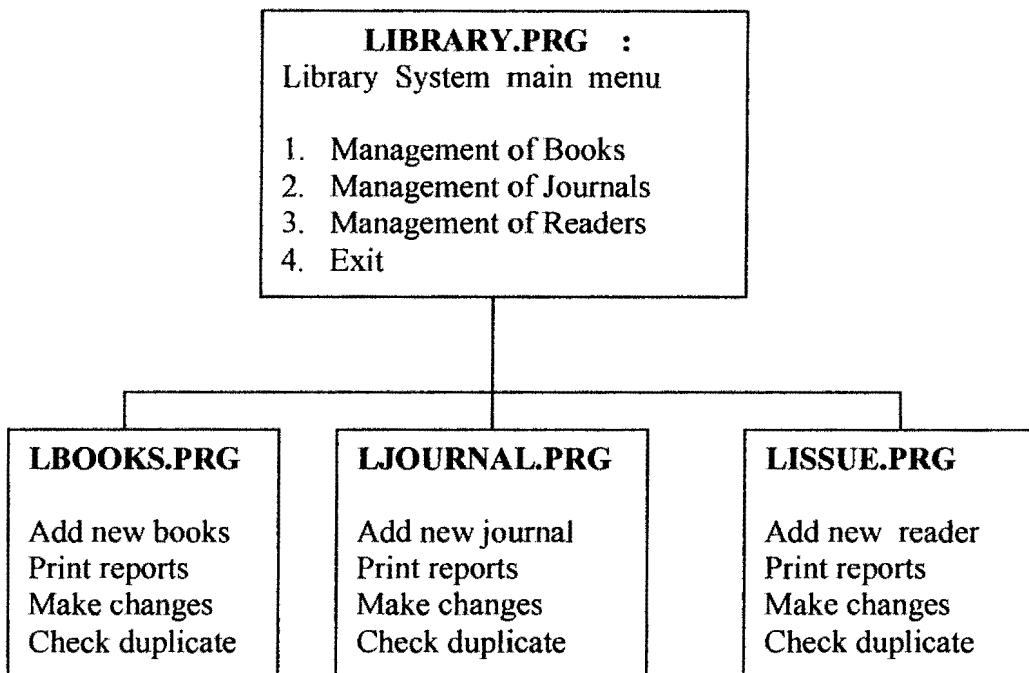


Fig. 2 : Overall Software Structure of the System

The main menu for the library management system performs three basic tasks. First, it reminds the copy right information. Then it assigns the system date (DATE()) to a memory variable called T_Date. Then it displays that date and asks user for confirmation or correction. Next the program asks the user which file to work with : the

Master file for the books or the Master file for the Journals or the Master file for the Borrowers. Then it branches to the appropriate command file based on the user's request. Listing of the developed program is available from the author.

4. Library Management

4.1 Management of Master Books Library

If the user selects the option for managing the Master books database, the LBOOKS.PRG presents additional options to the user. The software structure for the management of the Master database is as shown in Fig.3.

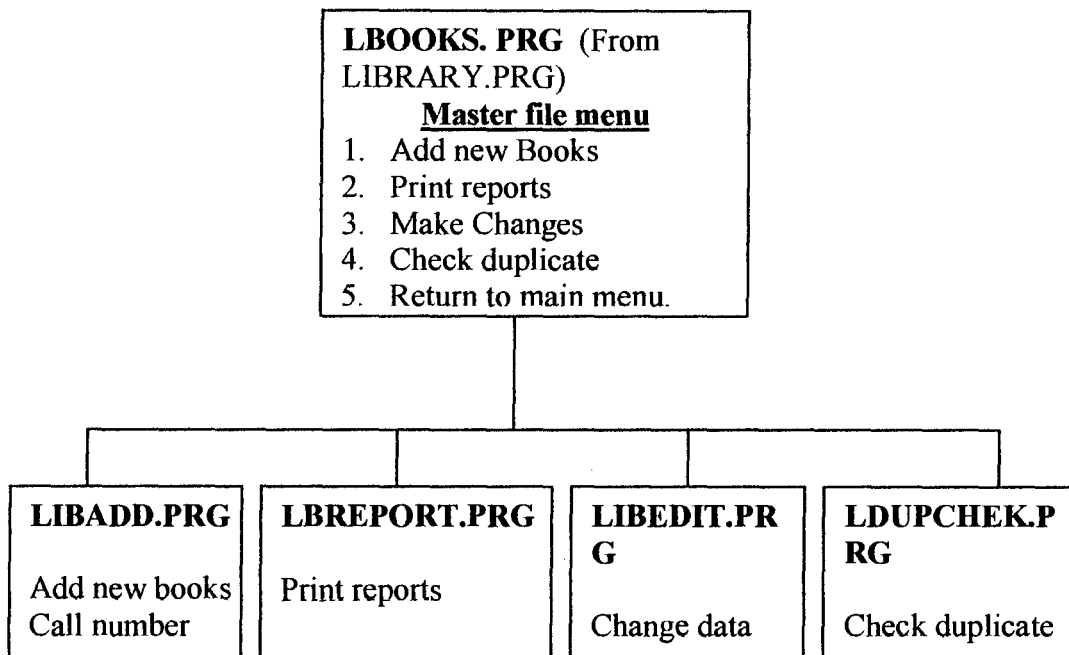


Fig. 3 : Software Structure for the Books Mangement

The first option from the master menu is to add new books. The job is handled by the LIBADD.PRG command file. When the user does enter a unique call number, a custom data entry screen appear on the monitor and allows the user to add the information of the book. At the time of creating the custom screen a format file is generated by the screen painter software automatically.

The data entry custom screen ADSCREEN.SCR created to add new books is as shown in Fig.4.

AECD LIBRARY SYSTEM : BOOKS ADD / EDIT SCREEN					
CALL NO.	<input type="text"/>	M_ENTRY	<input type="text"/>	AVAILABLE	<input type="checkbox"/>
TITLE	<input type="text"/>			ACCESSION	<input type="text"/>
SUBTITLE	<input type="text"/>			DATE ACCESS	<input type="text"/>
J_AUTHOR	<input type="text"/>			U_PRICE	<input type="text"/>
SUBJECT	<input type="text"/>	VOLUME	<input type="text"/>	SERIES	<input type="text"/>
				EDITION	<input type="text"/>
PUBLISHER	<input type="text"/>			PLACE_PUBL	<input type="text"/>
YEAR_PUBL	<input type="text"/>	NO_COPIES	<input type="text"/>	NO_PAGES	<input type="text"/>
				LOCATION	<input type="text"/>
				NOTE	<input type="text"/>
ILLUSTRAT	<input type="text"/>			BIBLIGRAPH	<input type="text"/>

Fig 4 : Data Entry/ Edit Custom Screen for Books

If the user enters a call number that already exists, the program displays a warning message. If the user even does not enter a call number, the program just returns control to the master menu LBOOKS.PRG.

When the user selects the option to print reports from the master books menu LBOOKS.PRG branches to the LBREPORT.PRG command file, which displays the menu of the report options shown in Fig.5.

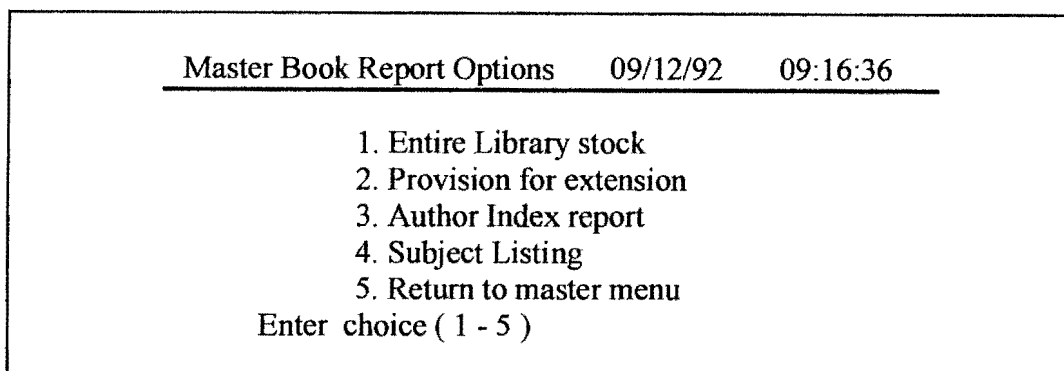


Fig. : 5. : Books Report Option Menu

If the user selects option 1 on the reports menu, the program asks for the print option. If the user chooses the print option, the program prints an entire library book report. If the user does not choose the print option, the program displays an entire library book report on the screen. Printing or display is done using a preassigned format. The example of the report of the entire library prepared by the program is shown in Appendix - I. Option 2 from the reports menu is kept provision for any type of future reporting desired by the management. When the user selects option 3 from the reports menu, a report of the books of a particular author is displayed. The author index listing report prepared by the program is shown in Appendix - II. Option 4 from the reports menu allows the user to have the subject index listing of the books is printed automatically. When the user selects this option, the screen displays some basic information about the subject of which the listing is desired, it prints the subject index listing which is as shown in Appendix - III.

Option 3 from the Master menu allows the user to edit the Master database file. For editing purposes an editing screen format file has already created. Editing screen format generally is same as the add screen format as shown in Fig.4. If no call number is entered, the program can just clear the screen. But if a valid call number is entered, it will allow the user to edit the information related to that book. If an invalid call number is entered, the program will warn the user and allow another try.

The final program in the Master menu system checks the database for duplicate records based on identical call number, main entry i.e. the author and the name of the book. Rather than actually deleting the records the program displays a report of possible

duplications. The program first sort the data, then check for matching pairs and will display all records that match on these fields.

4.2 Management of Master Journals Library

If the user selects the option for managing the Master journal database, the LJOURNAL.PRG presents additional options to the user. The software structure for the management of the Master journal database is as shown in Fig.6.

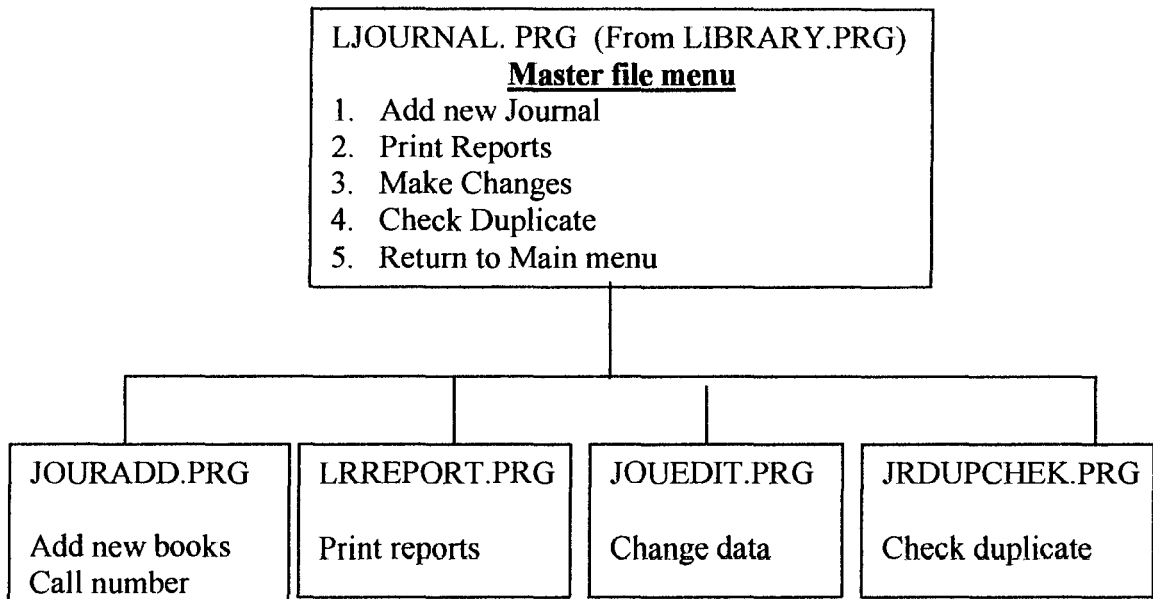


Fig. 6 : Software Structure for the Journal Mangement

The first option from the master menu is to add new journals. The job is handled by the JOURADD.PRG command file. When the user does enter a unique call number, a custom data entry screen appear on the monitor and allows the user to add the information of the journal. At the time of creating the custom screen a format file is generated by the screen painter software automatically.

The data entry custom screen LJSCREEN.SCR created to add new books is as shown in Fig.7.

AECD JOURNAL LIBRARY : ADD / EDIT SCREEN					
CALL NO.	<input type="text"/>	NAME	<input type="text"/>		
PUBLISHER	<input type="text"/>	PALACE_PUB	<input type="text"/>		
YEAR_PUB	<input type="text"/>	FREQUENCY	<input type="text"/>	CUR_STATUS	<input type="text"/>
AVAL_VOL	<input type="text"/>				
LACKS_VOL	<input type="text"/>				
CUR_VOL	<input type="text"/>	INDEX	<input type="text"/>		
REMARKS	<input type="text"/>				

Fig. 7 : Data add / Edit Custrom Screen for Journals

If the user enters a call number that already exists, the program displays a warning message. If the user even does not enter a call number, the program just returns control to the master menu LJOURNAL.PRG.

When the user selects the option to print reports from the master books menu LJOURNAL.PRG branches to the JRREPORT.PRG command file, which displays the menu of the report options shown in Fig.8.

<u>AECD Library Journals Report Options 09/12/92 09:16:36</u>	
1. Entire Journal List	
2. Current Journals	
3. Subject Listing	
4. Future Provision	
5. Return to master menu	
Enter choice (1 - 5) #	

Fig. 8. : Journal reports option menu

If the user selects option 1 on the reports menu, the program asks for the print option. If the user chooses the print option, the program prints an entire library journal report. If the user does not choose the print option, the program displays an entire library journal report on the screen. Printing or display is done using a preassigned format. The example of the report of the entire journals prepared by the program is shown in Appendix - IV. When the user selects option 2 from the reports menu, a report of the current journals is displayed. The current journal listing report prepared by the program is shown in Appendix - V. Option 3 from the reports menu allows the user to have the subject index listing of the journals is printed automatically. When the user selects this option, the screen displays some basic information about the subject of which the listing is desired, it prints the subject index listing which is as shown in Appendix - VI. Option 4 is kept provision for further extension as desired by the management in future.

Option 3 from the journal Master menu allows the user to edit the journal Master database file. For editing purposes an editing screen format file has already created. Editing screen format generally is same as the add screen format as shown in Fig.7. If no call number is entered, the program can just clear the screen. But if a valid call number is entered, it will allow the user to edit the information related to that call number of the journal. If an invalid call number is entered, the program will warn the user and allow another try.

The final program in the Master menu system checks the database for duplicate records based on identical call number, name of the journal and publisher. Rather than actually deleting the records the program displays a report of possible duplications. The program first sort the data, then check for matching pairs and will display all records that match on these fields.

4.3 Management of Borrowers' Information

If the user selects the borrowers' register / book issue menu, the Lissue menu LISSUE.PRG will present additional option for the user. The software structure of the borrowers' register menu is as shown in Fig.9.

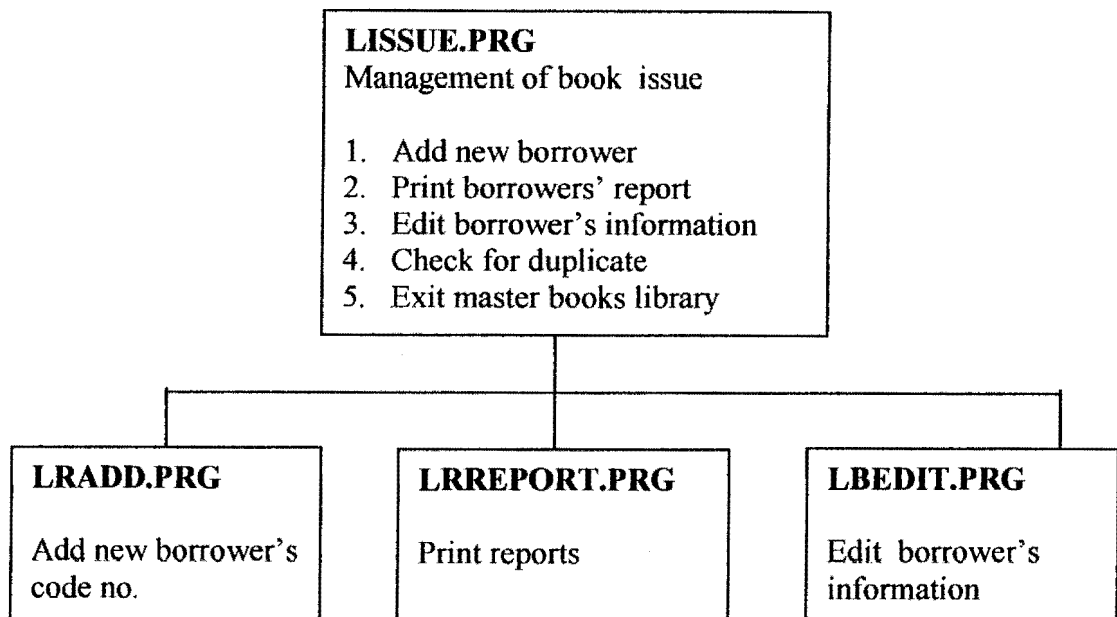


Fig. 9 : Software Structure of the Borrowers' Register

If the user selects the option 1 in the book issue menu (LISSUE.PRG), the job is handled by the LRADD.PRG command file. If no code number is entered, the program clears the screen and return to the book issue menu (LISSUE.PRG). If an existing code number is entered, the program asks the user to edit the information of that borrower. But when a code number is entered which does not exists, the program asks the user to add that particular code number to the borrowers' list. For editing the information of the borrower's issue and also for addition of new borrower the same format is used.

If the user selects the option 2, the program displays additional menu for printing reports. At this stage the user can select the option for printing the report of the books issued or may return to the book issue menu. The list of issued books prepared is shown in Appendix - VII. The list of books issued by a particular borrower prepared is also shown in Appendix - VIII.

5. Conclusion

The developed library management program is being tested and used for the management of the library of the Atomic Energy Centre, Dhaka. The program is a user friendly one. This may be used by any library of BAEC institutions. This program may be helpful to increase the efficiency of the library service rendered to the readers along with the improved management of the library.

Acknowledgement

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References

1. A. Simpson, Advanced Techniques in dBase III Plus, Sybex Inc., 1986.
2. C. Townsend, Mastering dBase III Plus, BPB Publications, 1987.
3. A. Simpson, Understanding dBase III Plus, BPB Publications, 1986.

Appendix - I

Page No. 1
05/30/95

List of the books of AECD library

Call No.	Name of Author	Name of the book	Qty	Subject
534.12 BRE	BROWN, THOMAS BENJAMIN	ELECTRONICS	1	ELECTRONI CS
680.1 ANE	ANGELO, E JAMES	ELECTRONICS	1	ELECTRONI CS
681.14 IAE	IAEA	STERILE INSECT TECHNIQUE FOR PASTE C. I.	1	INSECTS
436.12 STS	STREETMAN, BEN. G	SOLID STATE ELECTRONIC DEVICES	1	ELECTRONI CS
436.17 ASZ	HULME, A	THE BIOCHEMISTRY OF FRUITS AND THEIR PRO	1	CHEMISTRY
534.14 BEA	BECKENBACH, EDWIN	APPLIED COMBINATIONAL MATHEMATICS	1	COMPUTER
681.14 RID	RICHARDS, R	DIGITAL COMPUTER COMPONENTS AND CIRCUITS	2	COMPUTER
778.347 GUA	GUDE, WILIAM	AUTORADIOGRAPHIC TECHNIQUES	1	RADIOGRAP HY
R 519.24 ALI	ALI, MIAN, MUHAMMAD	AN INTRODUCTION TO STATISTICS	2	STATISTIC S
55(022) ADC	ADAIR, ROBERT K	CONCEPTS IN PHYSICS	1	PHYSICS
R 530.1(058) ADV	ED. KEITH A. BRUECKNER	ADVANCES IN THEORETICAL PHYSICS	1	PHYSICS
53: 61+57 ALP	ALBERI, G	PROC.INT.CONF.ON APPL.OF PHYSICS TO	1	PHYSICS
53: 61+57 ALP	ALBERI, G	PROC.11 INT.CONF. ON APPL. OF PHYSICS	1	PHYSICS
518.5 (058) ALM	ALDER, BERNI	METHODS OF COMPUTATIONAL PHYSICS	1	PHYSICS
R 53(02) AME	DWIGHT E. GRAY	AMERICAN INSTITUTE OF PHYSICS HANDBOOK	1	PHYSICS
530.1	ED. ALLADI RAMAKRISHNAN	ANNIV.SYMP.INS. OF MATHEMATICAL SCIENCES	1	PHYSICS
530.1 ANS	ALLADI RAMAKRISHNAN	ANN.SYMP.INS.OF MATHEMATICAL SCIENCES	1	PHYSICS
53:518 5 ANC	ANN.CONF.COMPUTATION AL PHYSICS	COMPUTATIONAL PHYSICS	1	PHYSICS
53 BAL	BAILEY, JOHN	LIBERAL ARTS PHYSICS:INVARIANCE & CHANGE	1	PHYSICS
53 BAM	BAKER, ADOLPH	MODERN PHYSICS AND ANTI PHYSICS	1	PHYSICS
53 BAC	BALLIF, JAE R	CONCEPTUAL PHYSICS MATTER IN MOTION	1	PHYSICS

List of the books of AECD library

Call No.	Name of Author	Name of the book	Qty	Subject
53(023) BEF	BEISER, ARTHUR	THE FOUNDATION OF PHYSICS	1	PHYSICS
53(022) BEM	BEISER, ARTHUR	THE MAINSTREAM OF PHYSICS	1	PHYSICS
54 DUM	DULL, CHARLES E	MODERN CHEMISTRY	1	CHEMISTRY
54 CHI	CHOPPIN, GREGORY	R INTRODUCTORY CHEMISTRY	1	CHEMISTRY
001.1: 5 CAS	CASSIDY, HAROLD	SCIENCE RELATED PHYSICS AND CHEMISTRY	1	CHEMISTRY
5(07) BOP	BOOTH, VERNE	PHYSICAL SCIENCE	1	CHEMISTRY
54 ANC	ANDRES, DONALD	CHEMISTRY	1	CHEMISTRY
53:54 BRP	BRACKENRIDGE, J	THE PRINCIPLES OF PHYSICS AND CHEMISTRY	1	CHEMISTRY
51 HAM	HALMOS, PAUL	MEASURE THEORY	1	MATHEMATI CS
517.94 GOM	GODDARD, L	MATHEMATICAL TECHNIQUES OF OPERAT.RES.	1	MATHEMATI CS
519.1: 53 HAG	HARARY, FRANK	GRAPH THEORY AND THEORETICAL PHYSICS	1	MATHEMATI CS
518 DEC	DEMIDOVICH, B	COMPUTATIONAL MATHEMATICS	1	MATHEMATI CS
51:53 DEM	DETTMAN, JOHN	MATHEMATICAL METHODS IN PHYSICS AND ENGG	1	MATHEMATI CS
11001.12 QQQ			0	
*** Total ***			36	

Appendix - II

Books of Individual Author

Call No	Name of author	Name of Book	Copies
53(023) BEF	BEISER, ARTHUR	THE FOUNDATION OF PHYSICS	1
53(022) BEM	BEISER, ARTHUR	THE MAINSTREAM OF PHYSICS	1
*** Total ***			2

Appendix - III

Page No. 1
05/25/95

Subject listing : Chemistry

Call No	Author	Name of Book	Copy
436.17 ASZ	HULME, A	THE BIOCHEMISTRY OF FRUITS AND THEIR PRO	1
54 DUM	DULL, CHARLES E	MODERN CHEMISTRY	1
54 CHI	CHOPPIN, GREGORY R	INTRODUCTORY CHEMISTRY	1
001.1: 5 CAS	CASSIDY, HAROLD	SCIENCE RELATED PHYSICS AND CHEMISTRY	1
5(07) BOP	BOOTH, VERNE	PHYSICAL SCIENCE	1
54 ANC	ANDRES, DONALD	CHEMISTRY	1
53:54 BRP	BRACKENRIDGE, J	THE PRINCIPLES OF PHYSICS AND CHEMISTRY	1
*** Total ***			7

Appendix - IV

Page No. 1
05/30/95

List of Journal

Call No	Name of Journal	Subject	Current status	Available volumes
223.23 ELE	ELECTRONICS FOR YOU	ELECTRONICS	AVAILABLE	
224.24 NUC	NUCLEAR INSTRUMENTS AND METHODS	PHYSICS	AVAILABLE	01, 02, 03
223.23 ELE	ELECTRONICS FOR YOU	ELECTRONICS	AVAILABLE	87, 88, 89, 90, 91
225.25 MAG	J. MAGNETISM AND MAGNETIC MATERIAL	PHYSICS	AVAILABLE	112, 113, 114, 115, 116, 118
123	NO NAME	PHYSICS	NOT AVAILABLE	
224.24 NIM	JOURNAL OF PHYSICS	PHYSICS	NOT AVAILABLE	
224.23 NAT	NATURE	BIOLOGY	AVAILABLE	201, 202, 203, 205, 206
01100.9 QQQ	J. OF APPLIED PHYSICS	PHYSICS	AVAILABLE	12, 13, 14, 16, 17, 18, 19, 20

Appendix - V

Page No. 1
05/30/95

AECD LIBRARY JOURNAL REPORTS

Call No	Name of Journal	Name of Publisher	Current Status
223.23	ELECTRONICS FOR YOU ELE		.T.
224.24	NUCLEAR INSTRUMENTS AND NUC METHODS		.T.
223.23	ELECTRONICS FOR YOU ELE	abc india	.T.
225.25	J. MAGNETISM AND MAGNETIC MAG MATERIAL		.T.
224.23	NATURE NAT		.T.
01100.9	J. OF APPLIED PHYSICS QQQ		.F.
123	NO NAME	X	.F.
224.24	JOURNAL OF PHYSICS NIM		.T.

Appendix - VI

Page No. 1
05/30/95

List of Journal

Call No	Name of Journal	Subject	Current status	Available volumes
225.25	MAG J. MAGNETISM AND MAGNETIC MATERIAL	PHYSICS	AVAILABLE	112, 113, 114, 115, 116, 118
01100.9	J. OF APPLIED PHYSICS QQQ	PHYSICS	AVAILABLE	12, 13, 14, 16, 17, 18, 19, 20
224.24	NIM JOURNAL OF PHYSICS	PHYSICS	NOT AVAILABLE	
123	NO NAME	PHYSICS	NOT AVAILABLE	
224.24	NUC NUCLEAR INSTRUMENTS AND METHODS	PHYSICS	AVAILABLE	01, 02, 03

Appendix - VII

Page No. 1
05/30/95

List of books issued

Code No	Name of Borrower	Call No	Name of book	Date of Issue	Date of return
AECD-1	AKM FAZLUL HOQUE	621.12 ABC	ENVIRONMENT AND DEVELOPMENT	12/12/94	/ /
AECD-2	SK BISWAS	681.18 ASD	ASASA	12/12/94	/ /
AECD-3	DR M KHALIQUZZAMAN	341.14 ABC	AAAAAAA	12/12/94	/ /
AECD-1	AKM FAZLUL HOQUE	621.13 ABC	COMPUTER TECHNOLOGY	12/12/94	01/18/95
AECD-1	AKM FAZLUL HOQUE	621.16 ABC	ACCELERATOR TECHNOLOGY	12/14/94	/ /
AECD-1	AKM FAZLUL HOQUE	681.01 ABC	MATHEMATICAL PHYSICS	12/15/94	/ /
AECD-2	SK BISWAS	AAA	AAA	12/17/94	01/18/95
AECD-1	AKM FAZLUL HOQUE		MANAGE YOUR PERSONAL COMPUTER	01/18/95	/ /
AECD-2	SK BISWAS			01/18/95	/ /
AECD-1	AKM FAZLUL HOQUE		NUCLEAR INSTRUMENTATION	01/18/95	/ /
AECD-4	DR MA SOBHAN		BBBB	01/18/95	/ /

Appendix - VIII

Page No. 1
05/25/95

List of books issued

Code No	Name of Borrower	Call No	Name of book	Date of Issue	Date of return
AECD-1	AKM FAZLUL HOQUE	621.12 ABC	ENVIRONMENT AND DEVELOPMENT	12/12/94	/ /
AECD-1	AKM FAZLUL HOQUE	621.13 ABC	COMPUTER TECHNOLOGY	12/12/94	01/18/95
AECD-1	AKM FAZLUL HOQUE	621.16 ABC	ACCELERATOR TECHNOLOGY	12/14/94	/ /
AECD-1	AKM FAZLUL HOQUE	681.01 ABC	MATHEMATICAL PHYSICS	12/15/94	/ /
AECD-1	AKM FAZLUL HOQUE		MANAGE YOUR PERSONAL COMPUTER	01/18/95	/ /
AECD-1	AKM FAZLUL HOQUE		NUCLEAR INSTRUMENTATION	01/18/95	/ /