

C Programming Lab Manual

Experiment 1: Area and Circumference of a Circle

Aim

To write a C program to read the radius of a circle and compute the area and circumference.

Algorithm

1. Start.
2. Read the radius r .
3. Calculate area = $\pi \times r \times r$.
4. Calculate circumference = $2 \times \pi \times r$.
5. Display area and circumference.
6. Stop.

Program

```
#include <stdio.h>
#define PI 3.142

int main() {
    int r;
    double area, circum;

    printf("Enter radius of a circle: ");
    scanf("%d", &r);

    area = PI * r * r;
    circum = 2 * PI * r;

    printf("Area of a circle = %.2f\n", area);
    printf("Circumference of a circle = %.2f\n", circum);

    return 0;
}
```

Sample Output

```
Enter radius of a circle: 5
Area of a circle = 78.55
Circumference of a circle = 31.42
```

Lecture Notes C Lab Manual Btech

**Institution of Radio and Electronics
Engineers, Australia**



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Programming for Problem Solving | AICTE Prescribed Textbook - English R.S. Salaria,2021-11-01 This textbook is designed as per the model curriculum of AICTE for the first year students of all branches of undergraduate programme in Engineering Technology BE BTech The subject of programming for problem Solving aims at developing problem solving skills among the students and the skills to create programs in C language for their implementation This book emphasizes to empower the students to grasp the skills required for problem solving and to develop deep understanding of the constructs of C language These aspects of the subject are well illustrated through enormous solved programming problems Salient Features | Simple and lucid language that enables students to grasp the subject | Demonstrates the elegant programming style | 165 ready to run programs for reference and to illustrate the program development process | 135 Short answer type questions to provide an opportunity for self assessment of the fundamental concepts learned by answering them precisely | 165 multiple choice questions to provide an opportunity to synthesize the fundamental concepts | 90 Programming problems to provide an opportunity to harness programming skills

Proceedings - Institution of Radio and Electronics Engineers Australia Institution of Radio and Electronics Engineers, Australia,1965 *The British National Bibliography* Arthur James Wells,2002 **Technical Books in Print** ,1974 **IBM Journal of Research and Development** ,1986 Chemistry 111 Laboratory Manual and Lecture Notes QDE PRESS Inc,2007-01-09 2014 updates Lovejoy's College Guide ,1991 Offers in depth profiles of more than 2500 four year and two year colleges and universities **Whitaker's Book List** ,1991 *Region in Figures* ,2000 Who's who in Finance and Industry ,1998 **Who's Who in the Midwest** Marquis Who's Who,Marquis Who's Who Staff,1998 Profiles the most influential men and women from America s heartland Contains over 16 000 biographies of people working in Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota and Wisconsin in the United States and from Manitoba and western Ontario in Canada **Who's who in America** John William Leonard,Albert Nelson Marquis,1958 Vols 28 30 accompanied by separately published parts with title Indices and necrology

C Lab Manual for B. Tech First Year Jntuk rama bhadra rao maddu,2012-01-13 This Book is for C lab manual of Engineering and Degree students it contains the Algorithm flowchart of each and every program so every one can use this book for hand book in computer lab **Lab Manual for Chemistry: Atoms First** John W Sibert,Gregg Dieckmann,2014-01-13 Laboratory Manual to Accompany Chemistry Atoms First by Gregg Dieckmann and John Sibert from the University of Texas at Dallas This laboratory manual presents a lab curriculum that is organised around an atoms first approach to general chemistry The philosophy behind this manual is to 1 provide engaging experiments that tap into student curiosity 2 emphasize topics that students find challenging in the general chemistry lecture course and 3 create a laboratory environment that encourages students to solve puzzles or play with course content and not just follow recipes The laboratory manual represents a terrific opportunity to get students turned on to science while creating an environment that connects

the relevance of the experiments to a greater understanding of their world This manual has been written to provide instructors with tools that engage students while providing important connections to the material covered in an atoms first lecture course Engineering Chemistry Laboratory Manual Shirish Kumar KODADI,2020-08-31 Over the most recent couple of years the importance of undergraduate technical education has grown amid a huge industrial revolution in our country More refined and recently discovered super specific topics are being introduced instead of old ones while modifying the course curriculum In the new course curriculum more noteworthy accentuation is laid on the basic science subjects and on the need to develop in depth knowledge about the fundamentals of any particular area of academic interest Keeping all this in mind and utilizing my long experience as a teacher in a technical college under a technical university I have ventured to write this book titled Engineering Chemistry Laboratory Manual In this book all experiments are explained as per the JNTU syllabus for the first year students of B Tech These are supplemented with theoretical explanations followed by procedure description tabulation calculation sample calculation and finally a series of possible viva voce questions and their answers relating to that experiment This book will certainly help all B Tech B E students to do well in their viva voce while completing their experiments cum examinations It will also serve as a textbook in Chemistry practical examinations for any student in the laboratory I sincerely hope that this book will receive full appreciation from both students and teachers

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