

## Experiment 8 INTEGRATOR USING OP-AMP

**AIM:** To design and set up an integrator circuit using op-amp.

**APPARATUS REQUIRED:** Power supply, CRO, function generator, bread board, Op-amp, capacitor, and resistors.

### INTEGRATOR

An inverting amplifier whose output voltage is proportional to the negative integral of the input voltage thereby simulating mathematical integration.

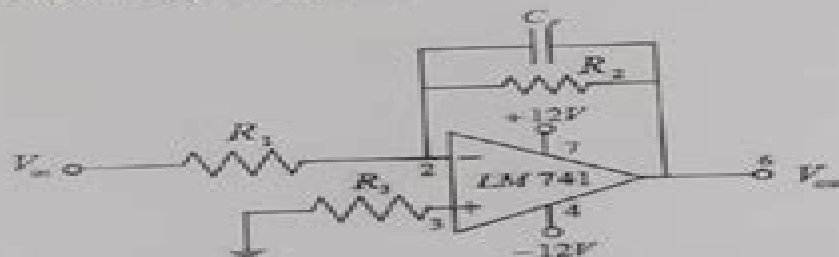
$$V_{out} = -\frac{1}{R_{in}C} \int_0^t V_{in} \cdot dt = -\int_0^t V_{in} \frac{dt}{R_{in} \cdot C}$$

If the Operational Amplifier Integrator is provided with a sine wave input whose frequency is varying, the integrator behaves like a "Low-Pass Filter", which produces only low frequency signal at the output. All the high frequency signal components are blocked or attenuated.

At 0 Hz, the feedback capacitor behaves like an open-circuit, so there is no feedback from the output to the inverting input of the op-amp. Now, the circuit behaves like an open-loop inverting amplifier with very high gain.

### Circuit Diagram

Let  $R_1 = 10K$  ohms,  $R_2 = 100K$  ohms,  $R_3 = 10K$  ohms, and  $C_f = 0.001 \mu f$



### Procedure

1. Set up the integrator circuit as shown in the figure, give square wave of 1v peak to peak, and 1 kHz frequency at the input and observe the input and output simultaneously on the CRO.
2. Repeat the experiment by using a sinusoidal wave and triangular input and observe the output.

# Opamp Lab Manual

**Thomas E. Brewer**



## Opamp Lab Manual:

**Laboratory Manual for Introductory Electronics Experiments** L. K. Maheshwari, M. M. S. Anand, 1979 **Lab Manual to Accompany Op-Amps and Linear Integrated Circuits** Ramakant A. Gayakwad, 1999-08-01 This lab manual accompanies Gayakwad's Op Amps and Linear Integrated Circuits **Instructor's solutions manual with transparency masters (includes lab manual results) to accompany Op-amps and linear integrated circuits, fourth edition, Ramakant A. Gayakwad** Ramakant A. Gayakwad, 2000 **Laboratory Manual for Electronic Devices and Circuits** David A. Bell, 2001 This lab manual accompanies Electronic Devices and Circuits 4e **Fundamentals of Electrical and Electronics Engineering | AICTE Prescribed Textbook - English** Susan S. Mathew, Saji T. Chacko, 2021-11-01

Fundamentals of Electrical Electronics Engineering is a compulsory paper for the first year Diploma course in Engineering Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE and academic content is amalgamated with the concept of outcome based education. Books covers six topics: Overview of Electronics Components and Signals, Overview of Analog Circuits, Overview of Digital Electronics, Electric and magnetic Circuits, A C Circuits and Transformer and Machines. Each topic is written in easy and lucid manner. A set of exercises at the end of each unit to test the student's comprehension is provided. Some salient features of the book: Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes; The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity; Book provides lots of vital facts, concepts, principles and other interesting information; QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided; Student and teacher centric course materials included in book in balanced manner; Figures, tables, equations and comparative charts are inserted to improve clarity of the topics; Objective questions and subjective questions are given for practices of students at the end of each unit. Solved and unsolved problems including numerical examples are solved with systematic steps.

*Lab Manual to Accompany Op-amps and Linear Integrated Circuits, Fourth Edition* Ramakant A. Gayakwad, 2000 *Op Amps and Linear Integrated Circuits for Technicians* Frank R. Dungan, 1992 *Op Amp Applications Handbook* Walt Jung, 2005 A complete and up to date op amp reference for electronics engineers from the most famous op amp guru **Op Amps and Linear Integrated Circuits** James M. Fiore, 2001 Divided into two major sections this guide's coverage is current and computer simulations via SPICE and Multisim are integrated throughout to provide experiences similar to those encountered in industry. Fundamentals are stressed in order to set up readers for success. Computer simulations are integrated as a means of verifying a by hand calculation enabling readers to perform what if experiments, test the validity of differing device models or investigate second order effects.

Op Amps and Linear Integrated Circuits Richard A. Honeycutt, 1988 **A Circuit Grammar for Operational Amplifier Design** Andrew Lewis Ressler, 1984 Electrical circuit designers seldom create really new topologies

or use old ones in a novel way Most designs are known combinations of common configurations tailored for the particular problem at hand In this thesis I show that much of the behavior of a designer engaged in such ordinary design can be modeled by a clearly defined computational mechanism executing a set of stylized rules Each of my rules embodies a particular piece of the designer's knowledge A circuit is represented as a hierarchy of abstract objects each of which is composed of other objects The leaves of this tree represent the physical devices from which physical circuits are fabricated By analogy with context free languages a class of circuits is generated by a phrase structure grammar of which each rule describes how one type of abstract object can be expanded into a combination of more concrete parts Circuits are designed by first postulating an abstract object which meets the particular design requirements This object is then expanded into a concrete circuit by successive refinement using rules of my grammar There are in general many rules which can be used to expand a given abstract component Analysis must be done at each level of the expansion to constrain the search to a reasonable set

*Basic Operational Amplifier Circuits for Analytical Chemical Instrumentation* Lawrence Philip Morgenthaler, 1968      Simulations for Operational Amplifiers Using Electronics Workbench James L. Antonakos, 1998

Appropriate as a supplement to op amp and devices courses where Electronics Workbench is used This hands on electronics lab manual presents a variety of computer based simulations of electronic circuitry analog and digital within an easy to learn and use virtual environment using Electronics Workbench      **Lab Manual for Electronics** Martin Feldman, 2001-11 The emphasis is first on understanding the characteristics of basic circuits including resistors capacitors diodes and bipolar and field effect transistors The readers then use this understanding to construct more complex circuits such as power supplies differential amplifiers tuned circuit amplifiers a transistor curve tracer and a digital voltmeter In addition readers are exposed to special topics of current interest such as the propagation and detection of signals through fiber optics the use of Van der Pauw patterns for precise linewidth measurements and high gain amplifiers based on active loads

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*Experiments in Analog and Digital Electronics* Thomas E. Brewer,2004-07-09     *Foundations of Electronics and Circuits and Devices* Russell L. Meade,1994     **Op-Amp Circuits Manual** R. M. Marston,2013-10-22 Op amp Circuits Manual

Including OTA circuits discusses the operating principles and applications of operational amplifier op amp circuits The book is comprised of 10 chapters that present practical circuits diagrams and tables The text first deals with the standard op amp of the 741 type Next the book covers the special types of op amp such as the Norton amplifier the operational transductance amplifier OTA and the LM 10 op amp reference IC The book will be of great use to design engineers and technicians

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in les cigares du pharaon the detectives did not have a name yet but instead were referred to as x33 and x33bis x33 and x33a in english several other characters make their first appearance in this album rastapopoulos allan thompson and olivier da figureira

[les aventures de tintin 04 les cigares du pharaon](#) - Jun 08 2022

avec 250 millions d'exemplaires vendus les aventures de tintin font partie des bandes dessinées européennes les plus célèbres et plus populaires du xx<sup>e</sup> siècle 1 tintin au pays des soviets 01 1930 2 tintin au congo 01 1931 3 tintin en Amérique 01 1932 4 les cigares du pharaon 01 1934 5 le lotus bleu 01 1936 6

**tintin reporter les cigares du pharaon on y a joué premier** - Dec 02 2021

may 24 2023 tintin reporter les cigares du pharaon sera sans doute un jeu pensé pour le grand public et les fans de la bd mais il laisse entrevoir pour le moment une adaptation fidèle et qui tient la route en espérant que l'entièreté du périple sera aussi convenable sortie prévue cette année 2023 sur pc ps4 ps5 xbox one xbox series et

**les cigares du pharaon archive org** - Aug 10 2022

les aventures de tintin reporter en orient les cigares du pharaon par hergé Éditions casterman paris tournai 0 demain mon cher milou nous serons À port saïd où nous ferons escale et puis encore une escale bombay puis une à colombo dans l'île de ceylan

**tintin les cigares du pharaon fnac** - Jul 09 2022

résumé dans les cigares du pharaon 1934 tintin se trouve impliqué par hasard et malgré lui dans un trafic de stupéfiants qui va l'entraîner jusqu'en Inde entre temps il aura rencontré Dupond et Dupont deux policiers balourds dont les rôles vont s'affirmer progressivement caractéristiques voir tout date de parution mai 1993 éditeur

**les cigares du pharaon un 4e tintin en version originale colorisée** - Apr 18 2023

oct 17 2022 les cigares du pharaon un 4e tintin en version originale colorisée hergé tintinimagination 2022 17 oct 2022 à 05 42 mise à jour 17 oct 2022 à 05 43 2 min par belga partager

[les cigares du pharaon tintinpassion net](#) - Jan 03 2022

les cigares du pharaon publication initiale dans le petit vingtième du 8 décembre 1932 au 8 février 1934 à raison de 2

planches hebdomadaires soit 124 planches parues sous le titre les aventures de tintin reporter en orient une adaptation en feuilleton radiophonique a été réalisée pour la radiodiffusion télévision

*cigars of the pharaoh part 1 imdb* - Jun 20 2023

cigars of the pharaoh part 1 episode aired nov 25 1991 tv g 24m imdb rating 7 4 10 422 your rating rate animation action adventure while on vacation in egypt tintin is accused of drug smuggling and later becomes the target of a secret society director stéphane bernasconi writers aaron barzman robert réa hergé stars

les cigares du pharaon tintin com tintin site officiel - Jul 21 2023

les cigares du pharaon ce quatrième épisode de la série premier album paru exclusivement chez casterman les précédents étaient estampillés Éditions du petit vingtième sous le titre les aventures de tintin reporter en orient les cigares du pharaon est sorti à l'automne 1934

**les cigares du pharaon france culture archive org** - Mar 17 2023

aug 19 2016 france culture la comédie française moulinsart avec l'orchestre national de france présentent les cigares du pharaon alors qu'il vogue vers port saïd en compagnie de son brave milou tintin fait la rencontre de philémon siclone un extravagant égyptologue parti à la recherche du tombeau du pharaon kih oskh

**les cigares du pharaon les aventures de tintin radio france** - May 19 2023

les cigares du pharaon les aventures de tintin alors qu'il vogue vers port saïd en compagnie de son brave milou tintin fait la rencontre de philémon siclone un extravagant égyptologue parti à la recherche du tombeau du pharaon kih oskh tintin accepte de l'accompagner dans sa quête

les cigares du pharaon hergé 1907 1983 archive org - Oct 12 2022

les cigares du pharaon cigars of the pharaoh is one of tintin's earliest adventures he and snowy are on a cruise to egypt when they happen to meet professor sophocles sarcophagus the first of tintin's absent minded professors and join his expedition

*les cigares du pharaon wikipedia* - Sep 23 2023

les cigares du pharaon est un album de bande dessinée le quatrième des aventures de tintin créées par le dessinateur belge hergé l'histoire est d'abord publiée en noir et blanc de façon hebdomadaire dans le petit vingtième sous le titre les aventures de tintin en orient du 8 décembre 1932 au 8 février 1934 pour un total de 124

À propos des machines À sous gratuites - Nov 01 2021

À propos des machines À sous gratuites

**tintin reporter les cigares du pharaon découvrez l'édition** - Sep 11 2022

sep 15 2023 tintin reporter les cigares du pharaon découvrez l'édition limitée et l'édition collector actualité publié le 15 09 2023 avec l'arrivée prochaine de tintin reporter les cigares du pharaon voici en première mondiale les deux éditions qui

seront proposées à l'occasion de la sortie de ce jeu tant attendu date de sortie du jeu vidéo

les aventures de tintin les cigares du pharaon youtube - Feb 04 2022

nov 15 2022 les aventures de tintin les cigares du pharaon 1992

**save 10 on tintin reporter cigars of the pharaoh on steam** - Mar 05 2022

cigars of the pharaoh is the fourth adventure in the series a video game filled with adventures to live join tintin in action

packed and thought provoking stages as he tries to solve an international drug trafficking case by exploring the east a tomb a stretch of desert the depths of a lush jungle or other places fraught with pitfalls

*les cigares du pharaon tintin site officiel* - Apr 06 2022

jun 26 2021 les cigares du pharaon dessin animé durée 41 min année 1992 producteur s ellipse anim nelvana france 3 m6

tintin en lutte contre les trafiquants de drogue de l'égypte à l'inde rencontre des personnages qu'il retrouvera souvent sur sa route des crapules comme le marin allan thomson ou l'énigmatique rastapopoulos

*regarder les cigares du pharaon en streaming complet* - May 07 2022

location 1 99 hd achat 2 99 hd signaler une offre manquante ou incorrecte résumé alors que tintin est sur à bord d'une croisière qui doit le mener à shanghai il fait la connaissance de l'étrange professeur philémon siclone qui est à la recherche du tombeau du pharaon kih oskh duquel il semble avoir le plan précis