

Alternative Transient Program

ATP Es una herramienta de software que permite la simulación digital de loscircuitos transitorios de sistemas electromagnéticos y electromecánicos con fines de diseño, especificación de equipos o definición de parámetros abstractivos.

El software resuelve sistemas algebraicos, matriciales o polinómicos, calculando el valor que adquieren a lo largo del tiempo las variables del mismo. Trabaja con modelos que caracterizan el comportamiento de sus distintos elementos constitutivos: resistencias, inductancias, condensadores, dispositivos de parámetros concentrados y/o distribuidos, máquinas, interruptores, etc.

Ha capacidad permite resolución de sistemas de hasta cinco milios, como ramas, qros fuentes, qros interruptores, qrs máquinas eléctricas y qros elementos no-lineales.2

Historia

En los años 80, Herman Ganssler 2, desarrolló para la Bonneville Power Administration (BPA) una aplicación computacional digital para simulación de circuitos abstractos, sistemas electromecánicos y sistemas de control llamado *Electromagnetic Transient Program* (EMTP).

En 1984 inicia el desarrollo de EMTP para su ejecución en computadores personales por parte de DSC y del Electric Power Research Institute (EPRI) con fines comerciales.2 Un grupo de usuarios alternativos, partiendo de los códigos que eran abiertos desarrollados por (BPA), continuaron la iniciativa y continuaron con la opción libre y abierta original y continuaron con el proyecto, denominándolo *Alternative Transient Program* (ATP), lo que hizo accesible el EMTP a un mayor número de usuarios.

La anterior impulsó la elaboración de trabajos y la divulgación de la nueva herramienta informática por muchos usuarios.2 Desde entonces, la herramienta se ha desarrollado a través de contribuciones de usuarios alrededor del mundo, independientemente de EMTP.

A finales de los años 80 se presentó la primera versión de la herramienta *ATPDraw*, desarrollada de manera independiente y que permitía dibujar un circuito en ambiente gráfico en lugar de tener que escribir sus archivos de texto con la información de la simulación deseada.

Historia en Colombia

El software fue traido a Colombia por Luis Fernando Blaudon, trabajador de la oficina de planeación de SNA, en Bogotá, luego de un curso de capacitación en la herramienta que realizó en Brasil. En 1990, se creó el grupo nacional de EMTP con el fin de mejorar la difusión de la herramienta en el país. 2 3

Licenciamiento

A pesar de que la herramienta EMTP que realizó BPA se mantiene en dominio público, ATP requiere un licenciamiento. El software es gratuito y su licenciamiento se realiza con grupos de usuarios.2 3

Funcionamiento

Entorno de trabajo

El software se compone de un compilador ATP y una serie de programas complementarios que facilitan el uso de la herramienta. Los complementarios son: editor de textos, editor gráfico de circuitos eléctricos y aplicaciones para visualización de los resultados obtenidos.

Compilador ATP

Es el núcleo de la aplicación y es la que permite compilar los datos del circuito de entrada con los resultados obtenidos. Los archivos de entrada al compilador se caracterizan por tener extensiones ".dat" o ".cnp". Los archivos de salida, en donde se registran los resultados de las simulaciones, son de extensiones ".dat" o ".plg".

Existen dos versiones de compiladores ATP:

- Model ATP: la serie que funciona en Windows. Permite sistemas de archivos de tipo *logfile*, *plotfile*, *archive* de *plots* y *de archive system*.
- de UNIX: Es la serie que en la mayoría de compiladores lleva de extensión ".cnp". En esta serie se incluye GNU-ATP-MingW2, GNU-ATP-mingw y GNU-ATP-Linux. GNU distribuye solamente la primera que funciona en Windows.

Subrutina MODEL

MODEL es una subrutina que al igual que TACS, fue desarrollada e incorporada en ATP por Laurent Dufal en 1990. Es un lenguaje de programación MODEL es de descripción textual, en el cual se utilizan un grupo de instrucciones sencillas (incluidas) que permiten la representación y el estudio de sistemas variables en el tiempo, al igual que la representación de sistemas físicos complejos.3

MODEL se puede definir como un lenguaje de programación para desarrollar modelos de componentes y construir librerías, representar componentes o procesos transitorios. Es un lenguaje simple al que se familiarizan con rapidez.3

Aplicaciones que componen el software

Los siguientes son algunas aplicaciones y uso de MODEL en ATP:

- Asociación de la serie de trabajo o nombre de base de datos a la función de tiempo o portación desde archivos externos.
- Asociación de la serie de trabajo o nombre de base de datos, desde el área de la función o nombre de sistemas a base de datos de gráficos.
- Control de la impresión, desde el área de los nombres de los archivos de tiempo, desde el área de variables como control de la serie o base de datos a la función.
- Medición de ganancias o pérdidas como portación, o según sector de portación, frecuencia, valores RMS o los distintos puntos de la red.
- Control de la serie de trabajo o serie o portación. Tener en cuenta:

Características del lenguaje de programación

Algunas características de MODEL son:

- Simple y directa, regular para el uso de variables, constantes, expresiones y funciones.
- Una sola vez asociada con sistema físico, de acuerdo con procedimiento de la función o nombre de sistemas a base de datos de gráficos.
- Permite el uso de funciones matemáticas y lógicas predefinidas. Hay un lista de funciones de medición por el nombre, y las otras predefinidas en la serie de.
- Permite la impresión directa de constantes y datos (CONST, VAL, ...) para la función de tiempo de ejecución de la procedencia de.
- Permite el uso de comentarios de fin de una descripción que facilita la lectura.
- Tiene la campo de nombres definidos para cada modelo. Esto permite asignar nombres a las variables usadas, a la cantidad control de nombres asociados a otros nombres de la función.
- Representación de la línea computable.
- Facilita la lectura de la línea para reducir complejidad. Los sub-lenguajes se denominan sub-módulo.
- Controlan la ejecución de la model.
- Permite el control de errores.

TACS

TACS es el acrónimo en inglés de *Transient Analysis of Control Systems*. TACS es un subprograma de ATP que simula un computador analógico en forma de bloques de control. Los bloques de interconexión y manejo de los dispositivos de control.

Algunas de los items incluidos en TACS son:

- Integrar con respecto a el tiempo (TACOSINTEGR) por medio de model.
- Para el control de el tiempo (TACOSCOUING) por medio de model.

Alternative Transient Program Manual

Luiz Cera Zanetta, Jr.



Alternative Transient Program Manual:

Power System Transient Analysis Eiichi Haginomori, Tadashi Koshiduka, Junichi Arai, Hisatochi Ikeda, 2016-05-02

Understanding transient phenomena in electric power systems and the harmful impact of resulting disturbances is an important aspect of power system operation and resilience Bridging the gap from theory to practice this guide introduces the fundamentals of transient phenomena affecting electric power systems using the numerical analysis tools Alternative Transients Program Electromagnetic Transients Program ATP EMTP and ATP DRAW This technology is widely applied to recognize and solve transient problems in power networks and components giving readers a highly practical and relevant perspective and the skills to analyse new transient phenomena encountered in the field Key features Introduces novice engineers to transient phenomena using commonplace tools and models as well as background theory to link theory to practice Develops analysis skills using the ATP EMTP program which is widely used in the electric power industry Comprehensive coverage of recent developments such as HVDC power electronics with several case studies and their practical results Provides extensive practical examples with over 150 data files for analysing transient phenomena and real life practical examples via a companion website Written by experts with deep experience in research teaching and industry this text defines transient phenomena in an electric power system and introduces a professional transient analysis tool with real examples to novice engineers in the electric power system industry It also offers instruction for graduates studying all aspects of power systems

Emerging Trends in Power Systems, Vol. 1 , Understanding Electromagnetic Transients in Power Systems Luiz Cera Zanetta, Jr., 2025-03-26 Understand transients and their roles in linear systems with this essential guide Electromagnetic transients are a fundamental aspect of linear power systems and therefore a key knowledge area for electrical engineers Understanding Electromagnetic Transients in Power Systems provides a comprehensive but accessible overview to transients their underlying theory and mathematics and their impact in electrical power system design Its detailed but clear presentation makes it a must own for students and working engineers alike Readers of Understanding Electromagnetic Transients in Power Systems will also find Deep consideration of the relationship between foundational concepts mathematical calculations and impacts on equipment Detailed discussion of topics including time and frequency domain analysis basic transforms fundamentals of electrical circuit transients and traveling waves overvoltage insulation coordination and many more Dozens of solved simple examples to facilitate understanding Understanding Electromagnetic Transients in Power Systems is ideal for electrical engineers and professionals in utilities and equipment manufacturing as well as for graduate and advanced undergraduate students learning about transients electrical circuits and related subjects

User's Guide to MOBILE5 ,1994 **Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA)** Suresh Chandra Satapathy, Siba K. Udgata, Bhabendra Narayan Biswal, 2012-12-14 The volume contains the papers presented at FICTA 2012 International

Conference on Frontiers in Intelligent Computing Theory and Applications held on December 22 23 2012 in Bhubaneswar engineering College Bhubaneswar Odisha India It contains 86 papers contributed by authors from the globe These research papers mainly focused on application of intelligent techniques which includes evolutionary computation techniques like genetic algorithm particle swarm optimization techniques teaching learning based optimization etc for various engineering applications such as data mining image processing cloud computing networking etc

Systems Approach to Social Engineering. ,1999

Transient Analysis of Power Systems Juan A. Martinez-Velasco,2020-02-10 A hands on introduction to advanced applications of power system transients with practical examples Transient Analysis of Power Systems A Practical Approach offers an authoritative guide to the traditional capabilities and the new software and hardware approaches that can be used to carry out transient studies and make possible new and more complex research The book explores a wide range of topics from an introduction to the subject to a review of the many advanced applications involving the creation of custom made models and tools and the application of multicore environments for advanced studies The authors cover the general aspects of the transient analysis such as modelling guidelines solution techniques and capabilities of a transient tool The book also explores the usual application of a transient tool including over voltages power quality studies and simulation of power electronics devices In addition it contains an introduction to the transient analysis using the ATP All the studies are supported by practical examples and simulation results This important book Summarises modelling guidelines and solution techniques used in transient analysis of power systems Provides a collection of practical examples with a detailed introduction and a discussion of results Includes a collection of case studies that illustrate how a simulation tool can be used for building environments that can be applied to both analysis and design of power systems Offers guidelines for building custom made models and libraries of modules supported by some practical examples Facilitates application of a transients tool to fields hardly covered with other time domain simulation tools Includes a companion website with data input files of examples presented case studies and power point presentations used to support cases studies Written for EMTP users electrical engineers Transient Analysis of Power Systems is a hands on and practical guide to advanced applications of power system transients that includes a range of practical examples

Nonlinear Electromagnetic Systems A. J. Moses,A. Basak,1996 The book covers classical and practical approaches to electromagnetic field solutions in magnetic devices The following topics are addressed Advanced computational techniques Intelligent computer aided design Magnetic materials Inverse problems Magnetic sensors and transducers Performance and optimisation of devices Applications to electronic systems Modelling of non linear systems and other related topics This volume presents 200 of the best articles presented at the International Symposium on Non Linear Electromagnetic Systems ISEM in Cardiff Wales The previous ISEM papers were published in the successful volume Advanced Computational and Design Techniques in Applied Electromagnetic Systems by Elsevier Main chapters in this book are Electromagnetic Devices Non linearities at contacts and interfaces in semiconductor

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