

# NTIS - National Technical Information Service

## ONTAP® NTIS - National Technical Information Service (File 206)

### FILE DESCRIPTION

The NTIS: National Technical Information Service database comprises summaries of U.S. government-sponsored research, development, and engineering, plus analyses prepared by federal agencies, their contractors, or grantees. It is the means through which unclassified, publicly available, unlimited distribution reports are made available for sale from agencies such as NASA, DOD, DOE, HUD, DOT, Department of Commerce, and some 240 other agencies. Additionally, some state and local government agencies contribute summaries of their reports to the database. NTIS is the lead U.S. Government agency for cooperation in international technical information exchange, and receives information from the National Aerospace Laboratory in Japan, Micromedia in Canada, among others.

The fulltext for some records are available via DialogLink 5, DialogSelect, or DialogWeb. Click on "Check for PDF download availability and purchase".

ONTAP® NTIS, File 206, is available for training and contains records from January through June 1987 from File 6.

### SUBJECT COVERAGE

- Administration and Mgmt.
- Agriculture & Food
- Aeronautics & Aerodynamics
- Astronomy & Astrophysics
- Atmospheric Science
- Biomedical Technology & Human Factors Eng.
- Building Industry Technology
- Chemistry
- Civil Engineering
- Communication
- Computers, Control, & Information Theory
- Electrotechnology
- Energy
- Environmental Pollution & Control
- Healthcare
- Industrial & Mechanical Engineering
- Library & Information Sciences
- Materials Sciences
- Mathematical Sciences
- Military Sciences
- Medicine & Biology
- Missile Technology
- Natural Resources & Earth Sciences
- Navigation, Guidance, and Control
- Nuclear Science & Technology
- Ocean Technology & Engineering
- Problem Solving for State & Local Gov'ts
- Photography & Recording Devices
- Physics
- Space Technology
- Urban & Regional Technology & Development

### TIPS

#### USE FILE 6

to find government-sponsored research from the U.S. and other countries.

#### EXPAND THE REPORT NUMBER

to explore all possible formats.

EXPAND RN=NASA CR-122447

#### USE RANK CS

to see which companies or universities are conducting work in an area of interest.

SELECT ECOLOG?(W)RISK(W)ASSESS?  
RANK CS

#### SEARCH SUBJECT HEADINGS

to create a broad subject area, then use title and descriptor words for specifics.

SELECT SH=85H AND  
TRAFFIC(2W)ENGINEER?/TI,DE

### DIALOG FILE DATA

Inclusive Dates: 1964 to the present (File 6)  
January to June 1987 (File 206)

Update Frequency: Closed (File 206)  
Weekly (File 6)

File Size: More than 2,400,000 records as of April 2010 (File 6)  
27,295 records (File 206)

### CONTACT

NTIS is provided by the National Technical Information Service, U.S. Department of Commerce. Questions concerning the file content should be directed to:

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U.S. Department of Commerce

5285 Port Royal Road

Springfield, VA 22161

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## SAMPLE RECORD

DIALOG(R)File 6: NTIS  
 (c) 2010 NTIS, Intl Cpyrght All Rights Res.  
**AA=** 2193670 NTIS Accession Number: PB2001-104037/XAB  
**/TI** Logic-Based, Performance-Driven Electric Vehicle Software Design Tool  
 ( Final rept. Jul 98-Aug 00 )  
**AU=** Blackketter, D. M. ; Alexander, D. G.  
**CS=** Idaho Univ., Moscow. National Inst. for Advanced Transportation Technology.  
 Corporate Source Codes: 009858007  
**SP=** Sponsor: Department of Transportation, Washington, DC. Research and Special  
 Programs Administration.  
**RN=** Report Number: NIATT-N01-10  
**PY=** Feb 2001 30p  
**LA=** Language: English  
**JA=** Journal Announcement: USGRDR0113  
**NT=** Sponsored by Department of Transportation, Washington, DC. Research and Special  
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 5285 Port Royal Road, Springfield, VA, 22161, USA.  
 NTIS Prices: PC A03/MF A01  
**CP=** Country of Publication: United States  
**CN=** Contract Number: DTRS98-G-0027  
**/AB** The goal of this research was to develop computer-based logic algorithms and build  
 them into SmarTHEV, a series hybrid electric vehicle software design program.  
 Computer-based logic algorithms were developed to improve the success and rate of  
 convergence of systems of equations as well as prevent systems of equations from  
 being improperly defined during the unknown variable identification process. The  
 system of equations that governs the operation of a series hybrid electric vehicle  
 is derived from the road load power equation. SmarTHEV is the result of combining  
 the computer-based logic algorithms with the governing equations that describe  
 the performance of a series hybrid electric vehicle. In SmarTHEV, any variable can  
 be specified as unknown, unlike most vehicle programs that determine vehicle  
 performance using only one set of unknown variables. This added flexibility can  
 result in a more complicated system to solve; however the computer-based logic  
 algorithms improve convergence properties such that there is little to no added  
 expense in solution time. SmarTHEV is a flexible and fast software program that  
 is to be used by design engineers for the analysis of series hybrid electric vehicles.  
**/DE** Descriptors: \*Electric vehicles; \*Computer aided design; \*Vehicle design; Vehicle  
 performance; Computer software; Algorithms; Hybrid vehicles; Design  
**/ID** Identifiers: SmarTHEV design program; NTISDOTOUR  
**/SH, SC=** Section Headings: 85H (Transportation--Road Transportation); 41A (Manufacturing  
 Technology--Computer Aided Design (CAD))

SEARCH OPTIONS

BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	—	All Basic Index Fields	Word	S PETROLEUM(W)FUELS(F)POLLUT?
/AB	AB	Abstract	Word	S VEHICLE(W)PROGRAMS/AB
/DE	DE	Descriptor <sup>1</sup>	Word & Phrase	S ELECTRIC(W)VEHICLES/DE
/ID	ID	Identifier <sup>2</sup>	Word & Phrase	S HYBRID VEHICLES/DE
/SH	SH	Section Heading <sup>3</sup>	Word & Phrase	S NTISDOTOUR/ID
/TI	TI	Title	Word	S SMARTHEV DESIGN?/ID
				S TRANSPORTATION/SH
				S MANUFACTURING TECHNOLOGY/SH
				S SOFTWARE(W)DESIGN(W)TOOL/TI

<sup>1</sup> Also /DE\*, /DF, /DF\*.

<sup>3</sup> Searchable in the Basic Index and in the Additional Indexes.

<sup>2</sup> Also /ID\*, /IF, /IF\*.

ADDITIONAL INDEXES

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AA=	AA	NTIS Accession Number <sup>4,5</sup>	Phrase	S AA=PB2001104037XAB
AU=	AU	Author	Phrase	S AU=BLACKKETTER, D. M.
—	AZ	DIALOG Accession Number		
CN=	CN	Contract Number	Word & Phrase	S CN=(EPA(W)APCO)
CP=	CP	Country of Publication	Word & Phrase	S CN=DTRS98-G-0027
CS=	CS	Corporate Source	Word & Phrase	S CP=(UNITED(W)STATES)
				S CP=UNITED STATES
				S CS=(IDAHO(W)UNIV)
				S CS=IDAHO UNIV?
				S CS=009858007
DT=	DT	Document Type	Phrase	S DT=JOURNAL ARTICLE
JA=	JA	Journal Announcement	Phrase	S JA=USGRDR0113
LA=	LA	Language	Phrase	S LA=ENGLISH
NT=	NT	Note	Word	S NT=(RESEARCH(1W)SPECIAL(W)PROG?)
—	PC	NTIS Price Code		
PY=	PY	Publication Year <sup>11</sup>	Phrase	S PY=2001
RN=	RN	CAS(R) Registry Number <sup>8</sup>	Phrase	S RN=NIATT-N01-10
RN=	RN	Report Number <sup>6,7</sup>	Word & Phrase	S RN=(AD(W)D018(W) 520)
				S RN=PATAPPL8854511
				S RN=PAT-APPL-8-854 511
SC=	SC	Section Heading Code <sup>9</sup>	Phrase	S SC=85H
SH=	SH	Section Heading <sup>3</sup>	Phrase	S SH=TRANSPORTATION
				S SH=85H
—	SO	Source Information <sup>10</sup>		
SP=	SP	Sponsoring Organization	Word & Phrase	S SP=(DEPARTMENT(1W)TRANSPORTATION)
				S SP=DEPARTMENT OF TRANS?
UD=	—	Update	Phrase	S UD=9999

<sup>4</sup> Do not use any space or punctuation.

<sup>8</sup> For records from 1980 forward.

<sup>5</sup> Also searchable using RN=

<sup>9</sup> Also searchable using SH=.

<sup>6</sup> Includes NTIS Accession Numbers which are also searchable using AA=

<sup>10</sup> Display information varies according to type of document.

<sup>7</sup> Includes some patent information and ISBN.

<sup>11</sup> Is not available for Rank.

**File 6**

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**SPECIAL FEATURES**

For command descriptions, enter HELP LIMIT, HELP SORT, HELP RANK, HELP DUP, HELP CURRENT online.

<b>LIMIT</b>	/ -- DIALOG Accession Number /ENG -- English-Language Documents /MAJ -- Major Descriptor or Identifier /NONENG -- Non-English Language Documents /YYYY -- Publication Year	S (PHEV OR PHEVS)/2016006:9999999 S S1/ENG S VEHICLE DESIGN/MAJ S BATTERY CHARGERS/NONENG S SC=41A/2010
<b>SORT</b>	<b>AA, AU, CN, CS, PY, RN, SP, TI</b>	SORT S1/ALL/AU SORT S2/ALL/PY,D
<b>RANK</b>	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked. Other RANK codes include: DE, ID	RANK AU S3 RANK DE S2
<b>RD, ID</b>	Remove duplicates (RD) or identify duplicates (ID,IDO).	RD S5
<b>CURRENT</b>	Search only the most recent year plus one (CURRENT1) to five (CURRENT5) years.	B 6 CURRENT2

**PREDEFINED FORMAT OPTIONS**

NO.	DIALOGWEB FORMAT	RECORD CONTENT
1	--	DIALOG Accession Number
2	--	Full Record except Abstract
3	Medium	Bibliographic Citation
4	--	Full Record with Tagged Fields
5	--	Full Record
6	Short	Title, NTIS Accession Number, and Publication Year
7	Long	Bibliographic Citation and Abstract
8	Free	Title, Indexing, NTIS Accession Number, and Publication Year
9	Full	Full Record
K	--	KWIC (Key Word In Context) displays a window of text; may be used alone or with other formats

**OTHER OUTPUT OPTIONS**

For an explanation, enter HELP TYPE, HELP UDF, HELP TAG online.

<b>USER DEFINED FORMATS</b>	Display codes listed in the Search Options tables can be used to customize output.	TYPE S3/TI,JN,PY/1-5 PRINT S2/TI,AB/ALL
<b>TAG</b>	Output can be displayed with tags identifying each display field.	TYPE S3/TI,JN,PY/1-5 TAG
<b>DIRECT RECORD ACCESS</b>	If the accession number of a specific record is known, it can be used to display the record directly.	TYPE 1254950/3 DISPLAY 121562/TI,AU PRINT 125552/9

**FOR ONLINE HELP:**

See HELP FIELDS 6 for searchable fields; HELP FORMAT 6 for output formats; HELP LIMIT 6 for limits; HELP RATES 6 for cost information; HELP SORT 6 for sorts.