

Introduction and Technology Year in Review

Mark Schubin

Cinema Is Still Not Dead









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International Worldwide Calendar All Time Showdowns Indices Domestic

Weekly Monthly Quarterly Yearly Seasons Holidays Daily Weekend

Domestic Yearly Box Office

Overview >

Calendar grosses 🔻

Data as of Feb 15, 1:36 PST

Year ~	Total Gross ≎	%± LY ≎	Releases \$	Average \$	#1 Release
2023	\$756,912,548	-	102	\$7,420,711	Avatar: The Way of Water
2022	\$7,368,808,746	+64.4%	493	\$14,946,873	Top Gun: Maverick
2021	\$4,482,795,864	+112.1%	439	\$10,211,380	Spider-Man: No Way Home
2020	\$2,113,846,800	-81.4%	456	\$4,635,628	Bad Boys for Life
2019	\$11,363,364,796	-4.4%	910	\$12,487,214	Avengers: Endgame
2018	\$11,892,160,011	+7.4%	993	\$11,975,991	Black Panther



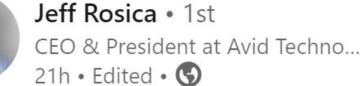












Congrats to James Cameron and The Walt Disney Company for topping \$2 billion in global box office haul for 'Avatar: The Way of Water' in just 38 days! It shows that folks will go back to the movie theater if you give them a compelling reason. The second installment of Avatar was clearly a compelling reason.

#avatarthewayofwater #compelling #moviemaking #boxoffice #settingrecords #backtothetheater



€ You and 97 others

7 comments









Majority of Americans Have Cut Cable for First Time in History

Over half of U.S. households are unreachable by traditional advertising, Samba TV's new report finds



Loree Seitz | February 13, 2023 @ 7:26 AM









According to the findings, 48% of U.S. adults report they have a monthly cable or satellite TV subscription while a slim majority of viewers turn their attention to streaming services. Without cable, over half of U.S. households are "totally unreachable by traditional linear advertising" in a moment Samba TV CEO and co-founder Ashwin Navin calls a "critical turning point in television and viewing consumption."



SUBSCRIBE



BUSINESS PLAN —

Comcast wants Internet users to pay more because customer growth has stalled

New sign-ups are scarce, so Comcast says revenue per user drives broadband growth.

JON BRODKIN - 10/28/2022, 4:44 PM

Last Year RBTF









CBC signals plans to go full streaming, ending traditional TV and radio broadcasts

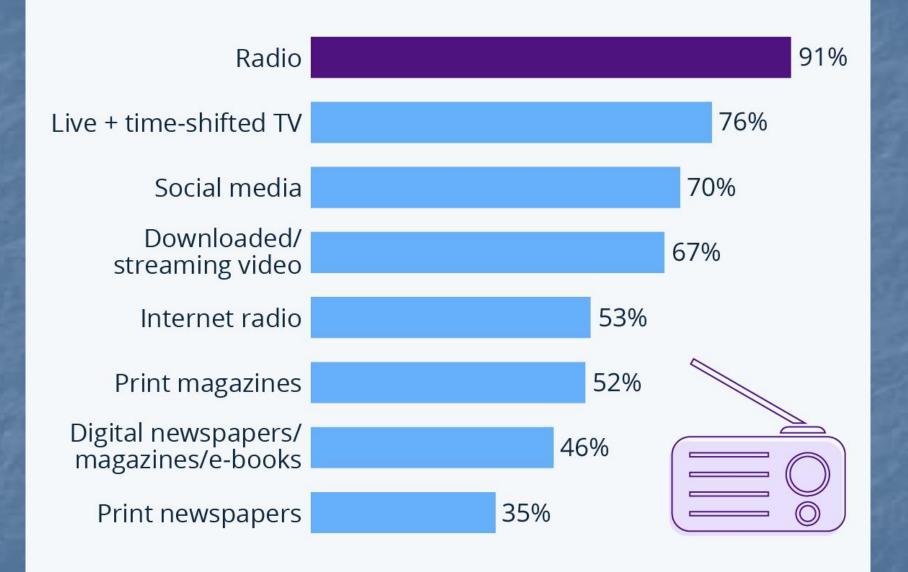
MARIE WOOLF >

OTTAWA

PUBLISHED FEBRUARY 7, 2023

Video Didn't Kill the Radio Star

Weekly media reach among U.S. adults in 2022



Source: MRI-Simmons Spring 2022 Connect













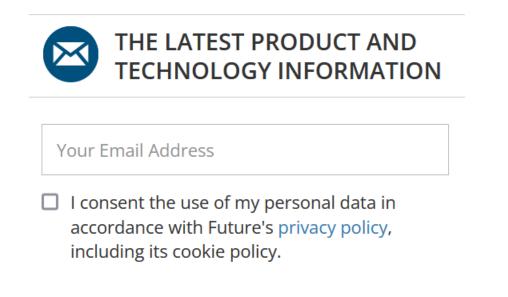


Home > News > Research

Antenna Adoption Grows Among Younger Viewers

By George Winslow published 1 day ago

Nearly two in ten viewers now use antennas for over-the-air broadcasts according to Horowitz





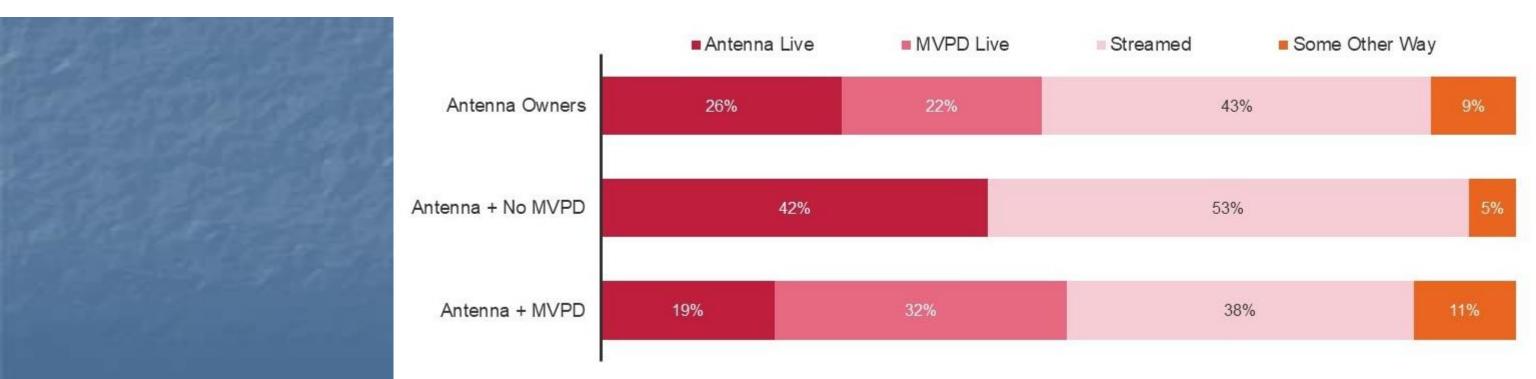






PERCENTAGE OF WEEKLY VIEWING BY PLATFORM

Base: TV Content Viewers 18+



ADVANCED TELEVISION

Report: How resilient is DTT is Europe?

November 30, 2022

As more than 90 million households, or 30 per cent of European TV homes, still rely exclusively on free-to-air channels for their TV consumption, the ongoing evolution of DTT transmission standards could be seen as a way to rejuvenate a TV access mode which does not appear as prosperous as it was in the past, at first glance at least. Dataxis asks: can the implementation of new DTT standards successfully strengthen these infrastructures?





Markets

Tech Media

Success

Perspectives

Videos

Fox scores Super Bowl ratings touchdown with 113 million viewers, the third most-watched TV program ever



By Oliver Darcy, CNN

Published 10:25 PM EST, Mon February 13, 2023

That said, it is worth noting that the decline of linear is present in the viewership data. Fox said Super Bowl LVII was the most-streamed Super Bowl in history, with an average of 7 million people watching via internet-based services. That figure represents an 18% jump from last year.



Solutions Insights

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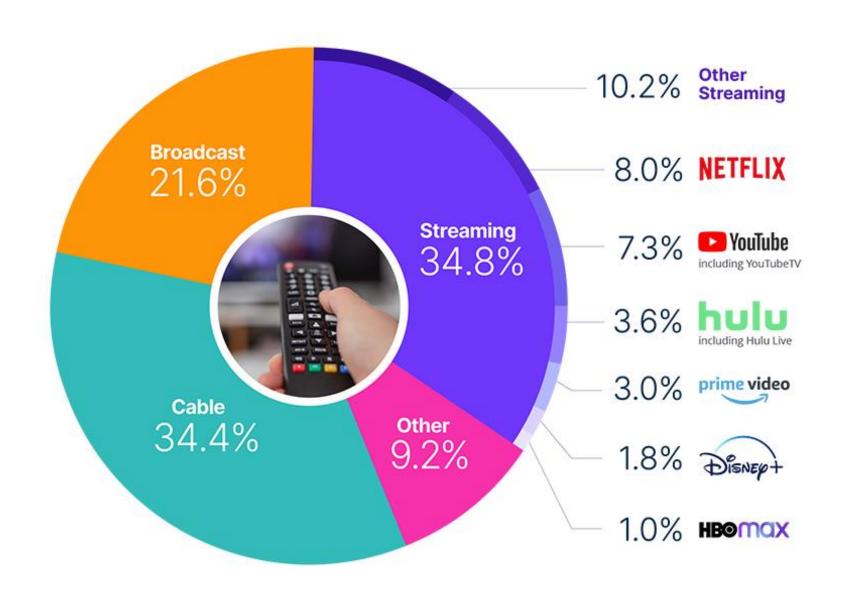
Q







Total Day Persons 2+







TRENDING

NAB Show

NextGen TV

FCC

Remote Production

TV Tech's February 2023 Issue

Home > News > Streaming

Digital Video Viewing Time to Surpass TV Viewing in 2023

By George Winslow published 6 days ago

For the first time, U.S. adults will spend more time watching digital video than traditional linear TV, according a new Insider Intelligence forecast











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advanced-television.com/2023/02/13/data-super-bowl-stream-delay-worse-than-2022/

ADVANCED TELEVISION

Data: Super Bowl stream delay worse than 2022

February 13, 2023 By Nik Roseveare



??!!



HOME > TV > NEWS

Oct 3, 2022 7:09am PT

'House of the Dragon' Viewers Outraged Over Scenes Too Dark to See, HBO Defends Them as 'Intentional Creative Decision'

By Zack Sharf ∨





wsj.com/articles/cant-hear-what-actors-are-saying-on-tv-its-not-you-probably-11669400315











Can't Hear What Actors Are Saying on TV? It's Not You, Probably

There are things you can do to address audio issues introduced by the production process

PHOTO ILLUSTRATION BY CHAYA HOWELL/THE WALL STREET JOURNAL, ISTOCK















CLEANER MARKET



\$9.77 Billion 2020

\$11.97 Billion 2021

\$50.65 Billion 2028



Some Things Take Time



original 2002 Roomba

photo by Larry D. Moore CC BY 4.0 license

Some Things Take Time



original 2002 Roomba

photo by Larry D. Moore CC BY 4.0 license



1959 Whirlpool robotic vacuum (patent 1957)

tip o' the hat to V. Michael Bove on LinkedIn

4K or Faux K?



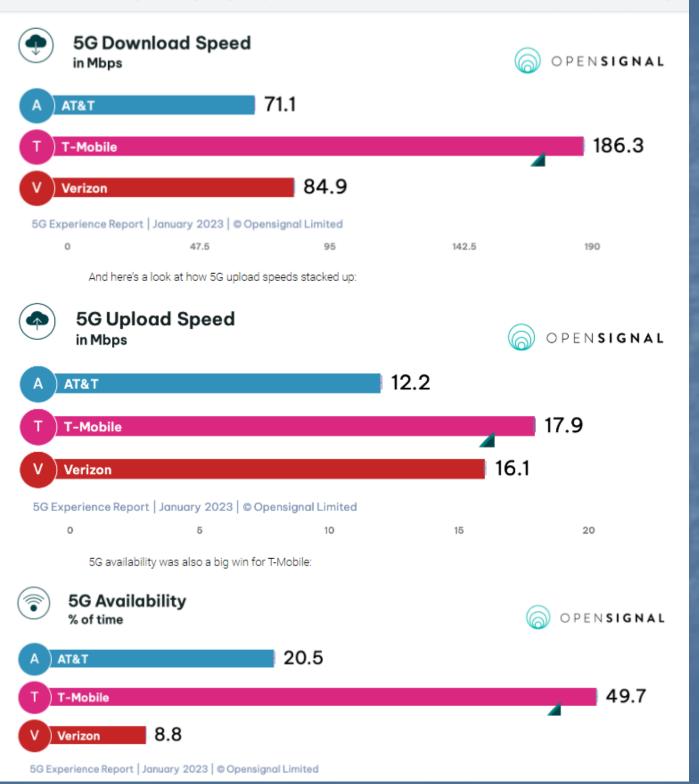


POPULAR SCIENCE

According to Consumer Reports, <u>Super Bowl LVII will be broadcast in 4K HDR</u>. It won't be "true" 4K, though, as Fox will essentially be repeating what it did the last time it hosted the big game in 2020: recording everything in 1080p HDR and upscaling it to 4K.

tip o' the hat to Pete Putman for "Faux K"

9to5mac.com/2023/01/30/how-much-faster-t-mobile-att-verizon/





reuters.com/business/aerospace-defense/us-airlines-urge-faa-extend-5g-upgrade-deadline-2023-02-10/

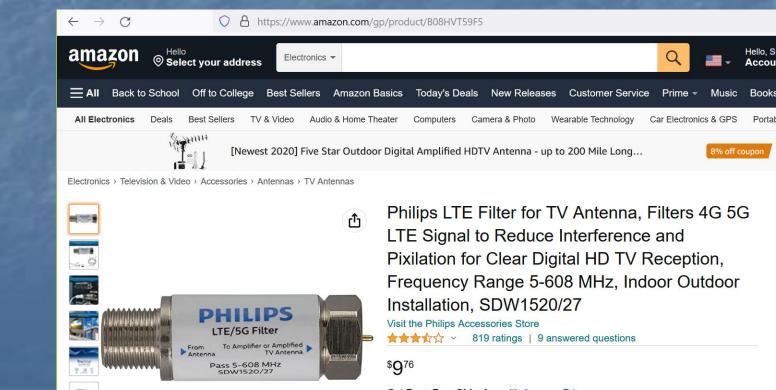
REUTERS® World > Business > Legal > Markets >



2 minute read · February 10, 2023 6:48 PM EST · Last Updated 7 days ago

U.S. airlines urge FAA to extend 5G upgrade deadline

By David Shepardson



Prism Series

₩ TERADEK

Prism Mobile

Prism Flex

Prism RU

VIEW WORKFLOWS

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Compare Prism

Portable Connectivity

Mission-Critical Network Bonding

verizon^v T Mobile Get exceptional worldwide internet connectivity virtually anywhere you go with two internal high-throughput Node II modems uniquely designed for video applications. For maximum redundancy, Prism Mobile can bond* up to nine network connections across Cellphone Hotspots (4x), Ethernet (2x), and Cellular Modems (3x) – ensuring your stream never misses a beat.

*CORE SUBSCRIPTION REQUIRED.

Satellite-Assisted Mobile



www.wsj.com/articles/apples-iphone-satellite-service-kicks-off-smartphone-space-race-11662901201









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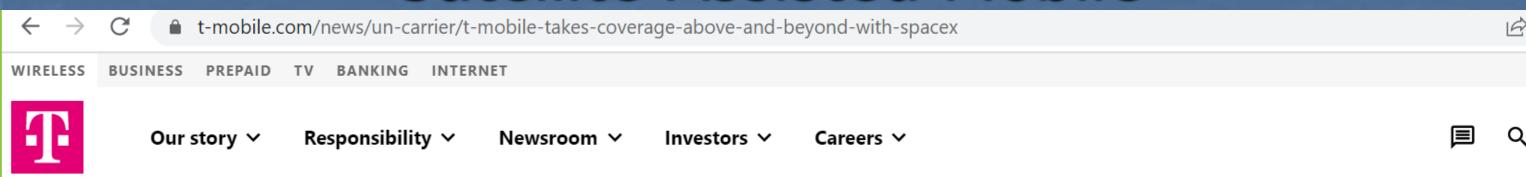


TECH

Apple's iPhone Satellite Service Kicks Off **Smartphone Space Race**

Years of preparation helped tech giant, but other phone makers, wireless carriers and aerospace companies have similar ambitions

Satellite-Assisted Mobile



UN-CARRIER

T-Mobile Takes Coverage Above and Beyond With SpaceX

August 25, 2022

Companies share their vision to provide truly universal coverage, pairing SpaceX's breakthrough satellite constellation with T-Mobile's industry-leading wireless network

New service aims to connect vast majority of smartphones already on T-Mobile's network to Starlink satellites











SUBSCRIBE



STARLINK SLOWDOWNS —

Starlink is getting a lot slower as more people use it, speed tests show

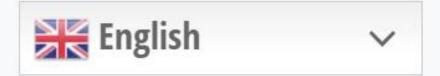
Starlink capacity limits hit users—SpaceX says more satellites will make it faster.

JON BRODKIN - 9/23/2022, 1:57 PM



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EAC 2022



Home » Wireless and Networking » Please Do Not Disturb

Please Do Not Disturb

Article By: Rohde & Schwarz



Category: Test & Measurement



2022-11-24



The interference-free coexistence of numerous



electrical and radio products cannot be taken for granted. Only targeted measures for EMC can ensure that cardiac pacemakers are not disrupted and aircrafts carry passengers safely to their













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DECEMBER 5, 2022

EU Denies Review Process on Energy Requirements – What Will Set Makers Do?

By Bob Raikes

According to an <u>article</u> in the Italian trade magazine Digital Day, the European Commission says it has no intention of revising a planned change to EU regulations on TV power consumption (<u>8K Industry Faces Challenge with New EU Regulatory Ruling</u>). The change will eliminate exemptions to power consumption regulations previously applied to 8K and microLED-based sets. On the face of it, that might cause 8K sets to disappear from the market, but the Commission said that it believed that the change in the regulations would not cause sets to be banned as TV makers would take action to meet the new rules. So what are TV makers doing?

First some brief background. The FLL along with other national bodies around the world, wants to limit the power consumption.











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DECEMBER 19, 2022

Why 8K OLEDs and QD-OLEDs are So Difficult to Make

By Bob Raikes

8K



Veronica Seider, supposedly extraordinarily acute vision, died in 2013

tip o' the hat to Ed Grogan











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CORD-CUTTER CONFIDENTIAL

ATSC 3.0 in 2023: Why NextGen TV still needs another year

Over-the-air TV's big update is here, but won't really take off until at least 2024.



CORD-CUTTER CONFIDENTIAL

By Jared Newman, TechHive | JAN 12, 2023 3:00 AM PST

Fair warning: This update on the status of ATSC 3.0—also known as NextGen TV —will read a lot like the one from last year, and maybe even the year before.

most sustainable form of motion-image distribution

In Addition to "Wireless Television," There's

ibc.org/features/top-10-trends-of-2022-fast-ai-virtual-production-and-more/9346.article



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FEATURES

TOP 10 TRENDS OF 2022: FAST, AI, VIRTUAL PRODUCTION AND MORE



By Mark Mayne | 14 December 2022

Faster Than Quibi









PLAY THE CROSSWORD

Daily Business Briefing >

CNN+ Streaming Service Will Shut Down Weeks After Its Start

A major investment by CNN, which poached big-name anchors and threw a splashy launch party, ends abruptly at the hands of a new corporate leadership team.

Or Government

www.broadbandtvnews.com/2022/09/13/hungary-eyes-legal-ddos-attacks-to-combat-piracy/



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Hungary eyes legal DDOS attacks to combat piracy

LATEST NEWS

SEPTEMBER 13, 2022 09.27 EUROPE/LONDON BY CHRIS DZIADUL

Some Things Don't Seem To Take Much Time

indianexpress.com/article/technology/chatgpt-hit-1-million-users-5-days-vs-netflix-facebook-instagram-spotify-mark-8394119/







Friday, Feb 10, 2023
EPAPER | TODAY'S PAPER



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News / Technology / Artificial Intelligence / ChatGPT hit 1 million users in 5 days: Here's how long it took others to reach that milestone

ChatGPT hit 1 million users in 5 days: Here's how long it took others to reach that milestone

ChatGPT crossed the one million user mark in just five days after it was made public in November 2022. How does that compare to other companies in the world of technology? We take a look.

By: Tech Desk

New Delhi | Updated: February 9, 2023 10:40 IST





Some Things Don't Seem To Take Much Time



















Technology

2 minute read · February 2, 2023 10:33 AM EST · Last Updated 5 min ago

ChatGPT sets record for fastest-growing user base

analyst note

By Krystal Hu

Feb 1 (Reuters) - ChatGPT, the popular chatbot from OpenAI, is estimated to have reached 100 million monthly active users in January, just two months after launch, making it the fastest-growing consumer application in history, according to a UBS study on Wednesday.





BIZ & IT TECH SCIENCE POLICY CARS GAMING & CULTURE

DEEP BLUE WAS JUST THE START —

Man beats machine at Go in human victory over AI

Amateur exploited weakness in systems that have otherwise dominated grandmasters.

RICHARD WATERS, FINANCIAL TIMES - 2/19/2023, 7:51 AM













DEADLINE

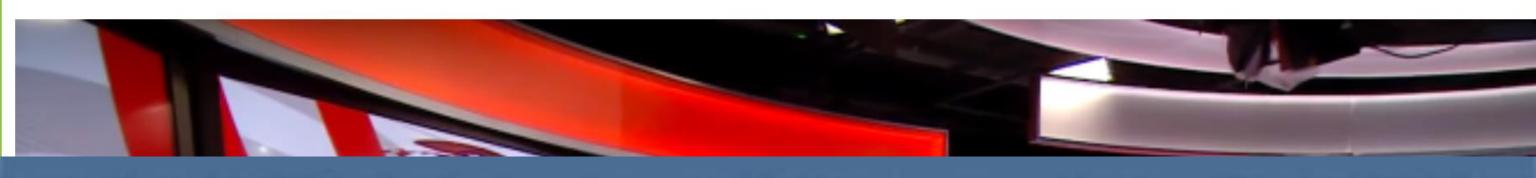


HOME / INTERNATIONAL / NEWS

BBC Replacing Robot News Studio Cameras In Hope Of Consigning Viral Tech Fails To History

By <u>Jake Kanter</u>

December 28, 2022 5:00am



= Forbes

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GAMES

'Overwatch 2' Will Run At Up To 600 FPS — If Your Rig Can Handle It

Kris Holt Contributor ① *I cover all things games, especially Overwatch.*











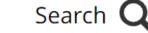














Home > News

Japan's NICT Sets New Data Transmission Speed Record

By Tom Butts published about 21 hours ago

1 petabit per second over fiber equivalent to broadcasting '10 million channels of 8K broadcasting per second'









"Event" Cameras

sciencedirect.com/science/article/pii/S2095809922002077



ScienceDirect*

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Article

Engineering

Available online 12 April 2022

In Press, Journal Pre-proof (?) What's this?

1000× Faster Camera and Machine Vision

Tiejun Huang, Yajing Zheng, Zhaofei Yu (2) M, Rui Chen, Yuan Li, Ruiqin Xiong,

Lei Ma, Junwei Zhao, Siwei Dong, Lin Zhu, Jianing Li, Shanshan Jia, Yihua Fu,



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Solar Energy, Volume 241, 2022, pp. 553-563 Siyuan Fan, ..., Shengxian Cao



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Extreme Mechanics Letters, Volume 53, 2022, ... Yaguang Guo, ..., Jinsong Leng

Direct upcycling of mixed Ni-lean polycrystals to single-crystal Ni-ric...

Chem, Volume 8, Issue 7, 2022, pp. 1944-1955

Xiaotu Ma, ..., Yan Wang

https://doi.org/10.1016/j.eng.2022.01.012 > Figures (6)

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Outline

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- 1. Introduction
- 2. Methods
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TECH

Elon Musk Says Brain Implant Startup Neuralink Should Be Ready for Human **Testing in Six Months**

Neuroscience company also showcases 'telepathic typing' in monkey with brain device, other capabilities, in live-streamed update

NVIDIA GeForce for Cars















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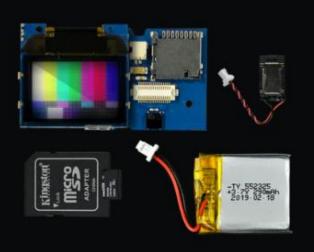


Working mini TVs to animate your models, dollhouses, and dioramas. Play any of your favorite videos and full-length movies. Change channels and volume using buttons, knobs, and the Tiny Remote. TinyTV2 and TinyTV Mini are currently available for preorder on Indiegogo and will be available here later in the year.

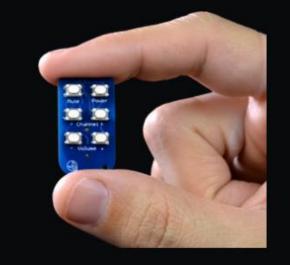
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Questions? (if time allows)

A pdf of these slides is at bit.ly/tr23-year