

پنج‌جاه سال در فضا

نویسنده: لیلا خلج زاده



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

$\ddot{\Psi}^\circ \vdash \delta_m \dot{\mu} \dot{\sigma} \dot{\tau} : \ddot{\Psi}^\circ \vdash \dot{\lambda} \dot{\iota} \dot{\tau}$

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5. Өңірлік басқару органдарының қызметін бақылау және бағалау

$$\ddot{y}^{\circ} \ddot{o}^{\circ} \pm \dot{y}^{\circ} \dot{o}^{\circ} \mp y^{\circ} \ddot{o}^{\circ} = \ddot{y}^{\circ} \ddot{o}^{\circ} \pm \dot{y}^{\circ} \dot{o}^{\circ} \mp y^{\circ} \ddot{o}^{\circ}$$

A black and white photograph of a spherical, metallic, reflective object, likely a component of a space station or satellite. The sphere has a highly reflective surface that shows bright highlights and dark shadows. Various mechanical parts, including pipes, valves, and electrical connectors, are attached to the top and sides of the sphere. Two prominent, cylindrical, segmented structures extend from the bottom of the sphere. The background is dark and indistinct, suggesting an indoor setting like a laboratory or workshop.

$$1 - \frac{1}{2} \frac{d}{dt} \left(\frac{1}{\rho} \right) \pm \frac{1}{2} \frac{d}{dt} \left(\frac{1}{\rho} \right)$$

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2011 年 11 月 11 日

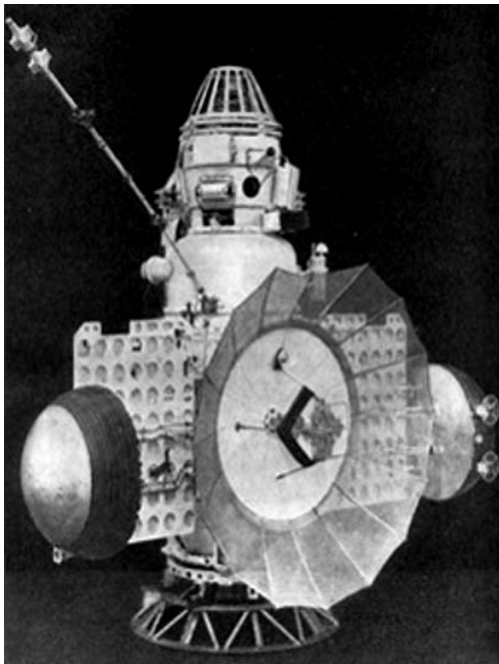
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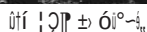


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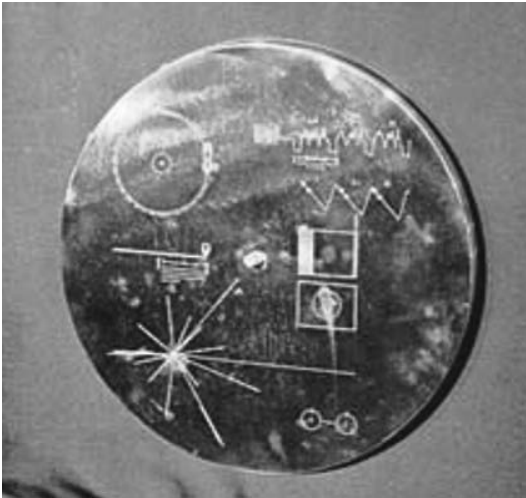
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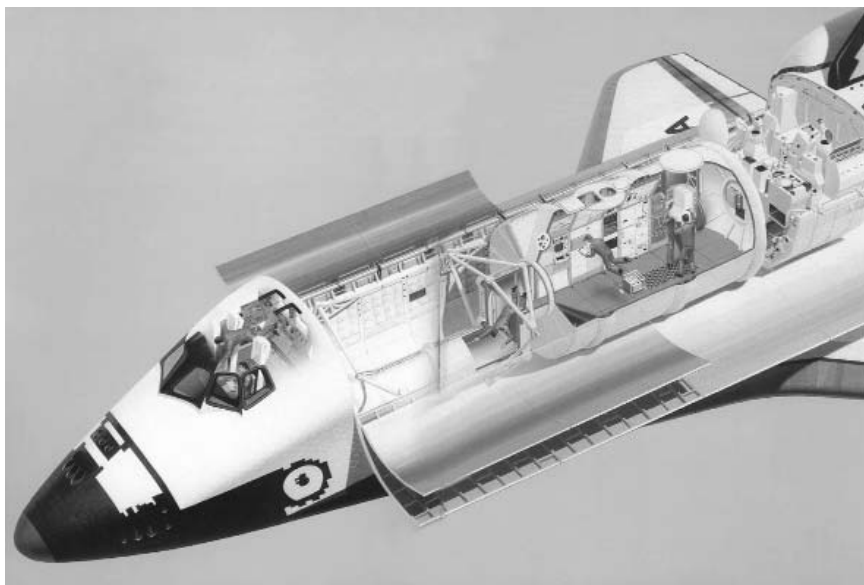
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2011 年 11 月 11 日

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۶۰ کیلوگرم وزن دار. ۱۲۴ کیلومتر ارتفاع اوج

• ۶۰ کیلوگرم وزن دار. ۱۲۴ کیلومتر ارتفاع اوج. ۳۹۳ کیلومتر ارتفاع حضیض. ۳۸۵ کیلومتر ارتفاع مدار. ۵۱/۶ درجه زاویه میل مدار. ۸۹ دقیقه پریود مداری. ۱۶/۱۶ تعداد مدار در روز. ۵۰۵۱۱ روز تعداد روز در مدار. ۴۰۵۹۴ روز تعداد روزهای سرنشین دار. ۳۰۷۰۰۳۸۰۶۳ کیلومتر مسافت طی شده. ۲۱ مارس ۲۰۰۱ تاریخ پایان عملیات مداری.

۱۲۴ کیلوگرم وزن دار. ۱۲۴ کیلومتر ارتفاع اوج

وزن	۱۲۴ کیلوگرم
ارتفاع اوج	۳۹۳ کیلومتر
ارتفاع حضیض	۳۸۵ کیلومتر
زاویه میل مدار	۵۱/۶ درجه
پریود مداری	۸۹ دقیقه
تعداد مدار در روز	۱۶/۱۶
تعداد روز در مدار	۵۰۵۱۱ روز
تعداد روزهای سرنشین دار	۴۰۵۹۴ روز
مسافت طی شده	۳۰۷۰۰۳۸۰۶۳ کیلومتر
تاریخ پایان عملیات مداری	۲۱ مارس ۲۰۰۱

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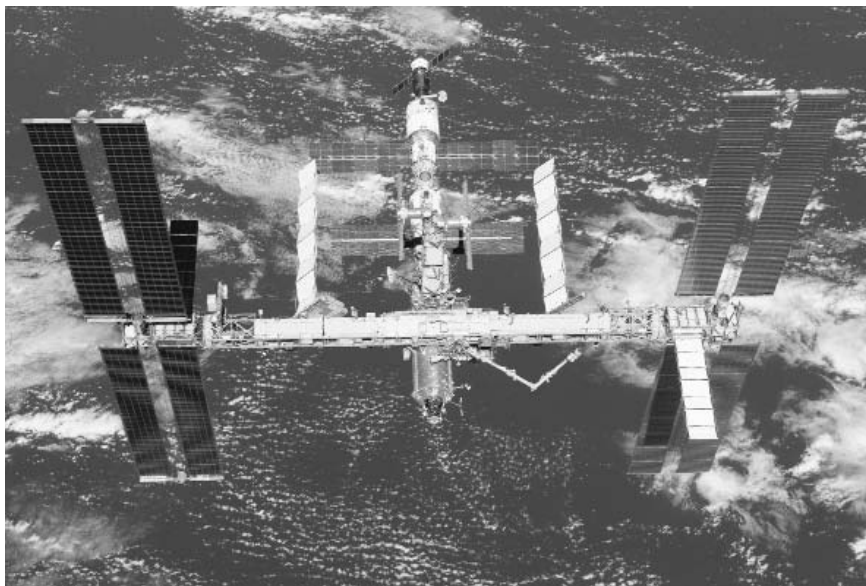
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A black and white group portrait of the seven STS-107 mission crew members. They are posed in two rows against a plain background. The front row consists of four people kneeling or sitting, while the back row has three people standing. All are wearing flight suits with NASA patches. Two individuals in the front row hold their helmets. A central graphic overlay features a stylized rocket launch path with names written along it: "CHAMBERS" at the top, followed by "ELSON", "HURBAND", "MCCOOL", and "STR 107" at the base. Other names visible on the suits include "SMITH" and "WILLIAMS".

týð ì òð ð}t° òtñý«ó±p óü±”

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 • የፍትሕ ሰነድ፡ የፍትሕ ሰነድ የሆነውን ሰነድ ማረጋገጥ ይቻላል፡፡
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በጥቅምት ፳፻፲፱ ዓ.ም. ለገንዘብ ጥያቄ ማቅረቢያ

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Opportunity	دق{١٥٥٧°٥٠°
Apollo	٥١°٥٠°
Atlantis	٤٠٠°٢٠°
Arthur Holly Compton	٥٥°١٢°٢٠°٢٠°
Ares Vallis	٤٠٠°١٠°
Ariane	٥١°١٠°
Jet Propulsion Library (JPL)	٥١°٢٠°٢٠°٢٠°
Alan Shepard	٢٠°١٠°
Anna Margaret Stuart	٢٠°١٠°
Antonov	١٠°١٠°
IIR-M GPS	١٠°٢٠°٢٠°٢٠°
IO	٥١°٢٠°
Ida	٢٠°١٠°
International Astronomical Union (IAU) National	٥١°٢٠°٢٠°٢٠°
Oceanic and Atmospheric Administration, NOAA	٢٠°١٠°٢٠°٢٠°
National Aeronautic and Space Administration, NASA	٢٠°١٠°٢٠°٢٠°
Edward White	٢٠°١٠°٢٠°٢٠°
Edwin (Buzz) Aldrin	٥١°٢٠°٢٠°٢٠°
SLV (Space Launch Vehicle)	٢٠°١٠°٢٠°٢٠°
Spirit	٢٠°١٠°٢٠°٢٠°
Specter	٢٠°١٠°٢٠°٢٠°
Sputnik	٢٠°١٠°٢٠°٢٠°
Spitzer	٢٠°١٠°٢٠°٢٠°
Space Adventures	٢٠°١٠°٢٠°٢٠°
SpacShipOne	٢٠°١٠°٢٠°٢٠°
Spacelab	٢٠°١٠°٢٠°٢٠°
SPACEHAB	٢٠°١٠°٢٠°٢٠°
Stardust	٢٠°١٠°٢٠°٢٠°



Pioneer Venus Multiprobe	Σ ± q{tí ± öô ±ðöüí
Pathfinder	°~ñüíx{
Proton	òð)ô±
Prodea Systems	εí{ · ÷íí ñü-ô±
Progress	± ±âô±
Priroda	±-ô±ü±
Pegasus	± öíí±â
Pegsat	• · ã
Paul Allen	óü· ê
PSLV (Polar Satellite Launch Vehicle)	ÿô ê. ± · d
Titan	òí{üí}
TIROS (Television Infrared Observatory Satellite)	± ô±üí}
Triton	òð{ü±}
Telstar	°í{ · ê}
Telecom Technology	ÿ `öðíüí} ííüí}
Thiokol / Boeing	â ñÿö\ ðððöü
JAXA (Japan Aerospace Exploration Agency)	)ó·` ÿíÄö.ö - íüüü) òííííí(í · d í <
John Herschel Glenn	óâ ê °±ü òí <
Jeffrey Williams	εííüö ÿ±x <
Gemini	dñüí <
Genesis	· ÿ · ñ <
Juno	öüö <
GSLV (Geosynchronous Satellite Launch Vehicle)	ÿô ê. ± · d <
Global positioning System: GPS	dííü < d:íüòííí í{ · ÷íí: ± · d í d <
Giotto	ö)öü <
Charles Simony	díöíííí εí°íÿ
Chandra	°~ííÿ
Challenger	±öüñöÿ
Great Red Spot	εí±ü) â °ε, êí
Small Red Spot	εí±ü) â ÿöðêíí

Dawn	Ò.-
Delta	†{<-
Halley Comet	q{†q °.- Ù††>-
Dennis Tito	õ{ŷ} ° ŷò-
ELDO (European Launch Development Organization)	ô-¿.
Rockwell International	Ë††<<±{ñ. Æõq.°
Redstone	òõ{††.-°
Compton Gamma Ray Observatory (CGRO)	òõ{††q ŷ†††ô õ}±± ±â-λ&°
Zarya	†ù°.-s
Zvezda	.-sô.-s
Zond	-¿ô°s
Jupiter-c	q††-±{ŷ-ô`
Saturn	ò±}†††
Saratov	Úõ}.°†††
Coordinated Universal Time	)q†† q}õù(q††ú< Æ ñ&†¿ • Í†††
Salut (Salyut)	-õ††††
Sally Ride	-¿.-° q{†††
Soyuz	sõù†††
Sergei Korolyov	Úõŷ.°†† q&±††
Sergey Krikalev	Q{††¿±±†† q&±††
Surveyor	±ùõ±††
Sriharikota	†)õ¿ù.°†ù±††
Sakigake	¿ ŷ&ù(¿††
Saint Louis	° ŷ-õ¿ • ñ††
Sonus Network	¿ °òõ{°sõñ††
Svetlana Yevgenyevna Savitskaya	†ù†¿ • {ùò††† ††õŷ&õù ††¿}õ††
Sojourner	±±±<õ††
Suisi	q . ùõ††
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Syncom	††¿¿ñŷ††





Space Shuttle	qitÄÖ 9}t°
Charon	òô°t°
Sharon Christa McAuliffe	Qÿö. s í t{ . i±d òô°t°
Shenzhou	ôµñ°
Shoemaker-Levy	ÿö÷±2\íí°
Friendship 7	Γ- ' \°-i±ô
Freedom 7	Γ-ï.-i±ô
Phoenix	° 2\ÿöô
Cosmos	± öì\†d
Kagoshima	†ì\°öê†d
Mars Exploration Rovers	°i±í d}†ÜÿÜ¶} ò±ê°ô†d
Klushino	öñ\°öêd
Konstantin Tsiolkovsky	q2 . öö22\ . } öÿ{t{ . ñd
Kathryn Sullivan	ò.öÿ†\ öi±}†d
Cassini-Huygens	°ñê†t°-qñ\††d
Crystal	9†{ . i±d
Aleksei Leonov	Úöêöê q . 2i.
Clyde Tombaugh	Úöí††} -i¿d
Colombia	†\öì 9d
Van Allen radiation belt	ó. öò qí«í«} -ñ±ìd
Kvant	• i.öd
Core	°öd
Corona	†iö°öd
Kibo	öÿ\†d
Cape Kennedy	ÿ-ñd ' \†d
Gaspra	±°\†ê
Galileo	ù9\††ê
Gregory Olsen	ó . í. ÿ°öê±ê
German Titov	Q{ÿ} ò†í±ê
Gzhatsk	ê . }†úêê

GLONASS (Global Navigation Satellite System)

Guyana

Leonardo

Lockheed Martin

Long March

Laika

Landsat

Luna

Lunakhod

Lunar Prospector

Mars Express

Mars Odyssey

Mars Pathfinder

Mars Reconnaissance Orbiter (MRO)

Mars Global Surveyor

Mark Shuttleworth

Mariner

Magellan

Michael Collins

Michael Lopez-Alegria

Multipurpose Laboratory Module Destiny

Laboratory Module

Raffaello Multipurpose Logistic Module

Columbus module

Johnson Space Center

Kennedy Space Center

Mercury

Muskingum

Molniya

Mojave

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Hercules Aerospace

Hydra

Houston

Iapetus

Yang Liwei

Utah

Yuri Alekseyevich Gagarin

Yuri Gidzenko

Ulysses

United Space Alliance

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وزارت ارتباطات و فناوری اطلاعات



سازمان فضایی ایران
IRANIAN SPACE AGENCY

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