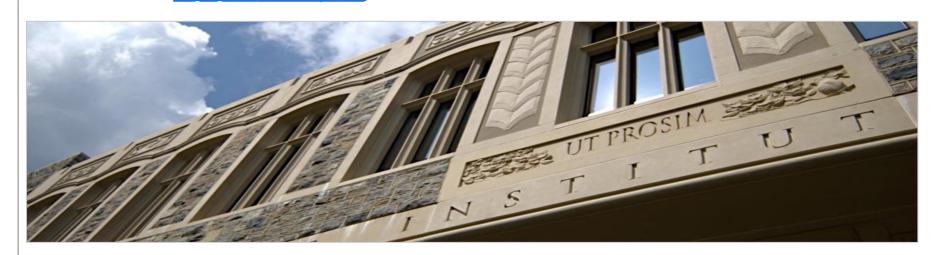
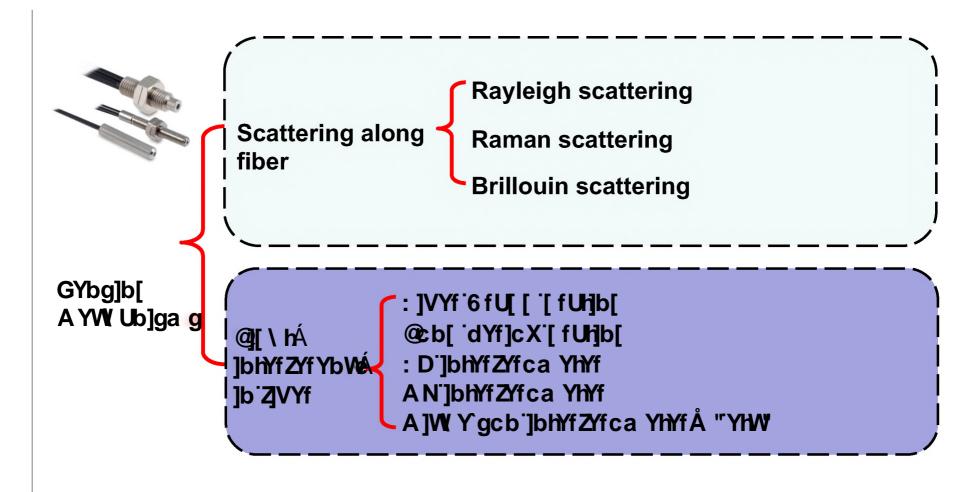
J=FHI 5 @K CF?G<CD'CB'CDH=7 Á
G9BGCFG': CF'9B9F; M'5DD@F5H=CBGÁ
AUFWY '&'Ë' ž&\$&!

CDH=75@5B8'57CIGH=7'G9BG=B; '=B < 5FG<'9BJ=FCBA9BHG







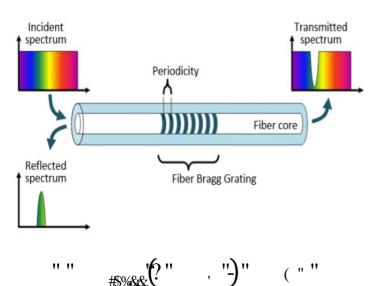






U] @8@4\^} •[| • Á\$ ÁÙT Ø• Á\$ åÁT T Ø•

~ÁØÓÕÁ\$; åÁØÚØ;^}•[¦•



TKÁ\læēā, *Á[lå^l _____KÁ\^_\^&cā[}Á, æç^|^} *c@ }KÁ\~^&cāç^ÁÜQÉAÁ; åÁKÁSA^Á; []ætæēā[}Á; [å^• KÁ\læēā]*Á;ã&@

Chắc ạa) ca ± ^ • Át -ÁØÓÕ • Ása) å ÁØÚQK

˝Á Ü^ ↓ ^ & cāt } Át [å ^ ÉAtā] * | ^ Áāb ^ | Á\$] L

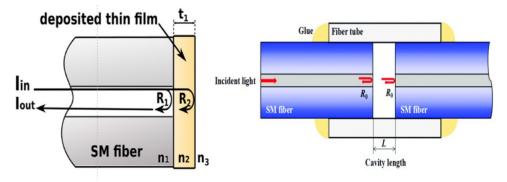
˝Á T ˇ | cāt [å a æ / Ása) a æ † c ^ KÁt ^ } • ā] * Át -ÁÜ CĐÁ d æāj ÉÁ

c^{] ^ | a æ ˙ | ^ ÉÁt c&ÈL

˝Á Òæ • ˇ } & cāt } a æ / Át d ˇ & c ˙ | ^ Á&[} • d ˇ & cāt } Ás Á

} [| { a æ / Áāb ^ | • È

PãC & QÂÔ[;] ÊÉQÎ • MAÑAC & QÊ(; 1) Ð}Ð Z@) * ÊÝÊÀ OÁGÊÛ^}•[;•ÊK-JÇFDÊ ÈÎ ÁÇEFÌ DÈ Pã•& QÊÑÊÁ OÁGÊÛ^}•[;•ÊK-ÏÇDÊ ÈÎ FÁÇEFÏ DÈ



$$I(\lambda) = I_1(\lambda) + I_2(\lambda) + 2\sqrt{I_1(\lambda) \cdot I_2(\lambda)}V\cos\left(\frac{2\pi}{\lambda}QRF''-\right)$$

Y @ Á, ¦^~\ ÁÙT Ø K

"Á Pã @Áã} æþÁs[@ ¦^} & ^Áæ\$ājānæe^ • Á@ā @ÁÙÞÜÁæ) åÁa^} •ãnāçãc`L

"Á Œç[ãåÁs¦[••Ás[ˇ] |ā, *Ás^ç ^^} Á; [å^•ÊÁæ • Âæ) æþî •ãnÁæ) åÁ

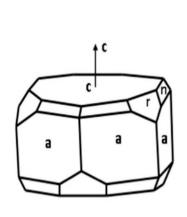
]^¦-[{ æ) & ^Á; |^å&3&cā; È

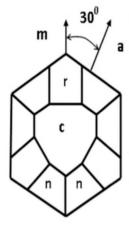
Ô@#|\^} * ^ • Á āc@ÁÙT Ø • K "Á Pā @Áā @Á\$[`] |ā * Á[• • Áā` ^ Á[Á { æ|Á\$[! ^ Áā ^ L "Á Ò¢] ^} • āç^Áā; & '!![* ææā; * Á î • & { ÆáÁ • ā; * Á\$[@ ! ^ } oÁā @Á[` ! & ^ • L "Á Ù^} • ātāçāc Á[Áæ{ à ā} } oÁ! & & ææā; } • Á * & @Áæ Áçāa! ææā; } È

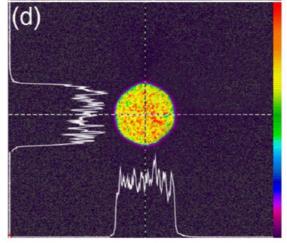




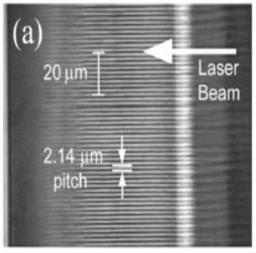
~ÁÛã;*|^Ë&¦^•œ;(Á;æ;)]@ã^Áãã^¦







Ò}^!*^Ásãa dâa ĭ cā[}ÁspÁræ]]@ā^Á ~ãa^¦•Ž[±]



Ùæ]]@ā^Áæā^¦ÁØÓÕ•Žá

ŽÃÁ Q\@A[çæ£ŠËĎËÁ OÁ¢HĚÓ¦^•cæ†ÊÁQDÉÁ ÈF€FÁÇEFÎDÈ ŽÁÁ Õ`[ÊÛËÁ OÁ¢HĚÓÒÒÁÚ^}•[¦•ÁĀ; $^{\circ}$] æÆÁÐÇÛÉÁ OÁ¢HĚÓÒÒÁÚ^Q. $^{\circ}$] $^{\circ}$ æÆÁÓÅ, & $^{\circ}$ [EÁ Õ'[EÁ OÁ¢HĚÓÒÒÁÚQ. $^{\circ}$] $^{\circ}$ æÆÁÓÅ, & $^{\circ}$ [EÍ AÇŒ€IDÈ





: 6; GYbqcf: Wf]Whcb

Dc]bHVmDc]bhAYh cX'k]h : Ya lcgYVcbX"UgYf

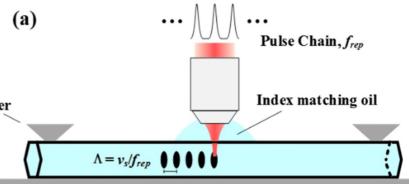
ØÓÕÁ&¦^æe^åÁà^Á|/ &æŧã^åÁ^;∤æ&æãç^Á ā, å^¢Á&@æ) * ^• Áåã dãà c åà čo å Áæd[} * Ás@ Áãà^; Q • & ¦ a] ca[} ÁçãæÁ Ì €Á { ÁÇÜÜË • DÁæ; ^ ¦ ÉÁ ŔÁ

Ú@æ•^Á\æe&@a*Á&\}åãaal}K

O Dici i AMP gha AS

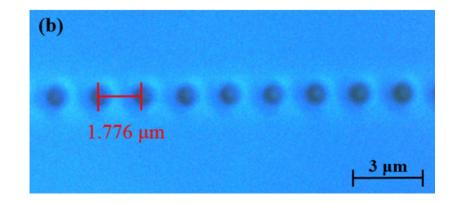
- Úãn&@Ás[}d[||^åÁsî^Ás@^Á||ææā[}Ási^c, ^^}Á c@Á[çã*Á]^^åÁæ}åÁc@Á^]^cãtã}}Áæe^
- Š^} * c@Áscåbŏ c^åÁsa^Ásc@AfcadeÁ ~ { à^¦Ás~Á
- W}ã ~ Á \$\text{\$\text{A}\$ cæt ^• Á c^¦ Á \$\text{\$\exitt{\$\ext{\$\exitt{\$\ext{\$\ext{\$\ext{\$\exitt{\$\text{\$\text{\$\ext{\$\exitt{\$\ext{\$\exitt{\$\ext{\$\ext{\$\exitt{\$\ext{\$\ext{\$\exitt{\$\ext{\$\exitt{\$\ext{\$\chi}\$}\$}\$}\ext{\$\exitt{\$\exitit{\$\ext{\$\exitit{\$\exit{\$\exit{\$\exititt{\$\ex{\$\exitit}\$}}\ext{\$\exitit{\$\ext{\$\exitit{\$\exitit{\$\exitit{\$\ex{ { ^c@ å

 $\tilde{O}^{(4)}$ $^{(4)}$ $fA Y = c^{n}$ CY ÖT DÁ&æ) Áà^Á\^æåāî Áā[] |\^{ \^} c\^å



Moving, v_s

5-axis Translation Stage

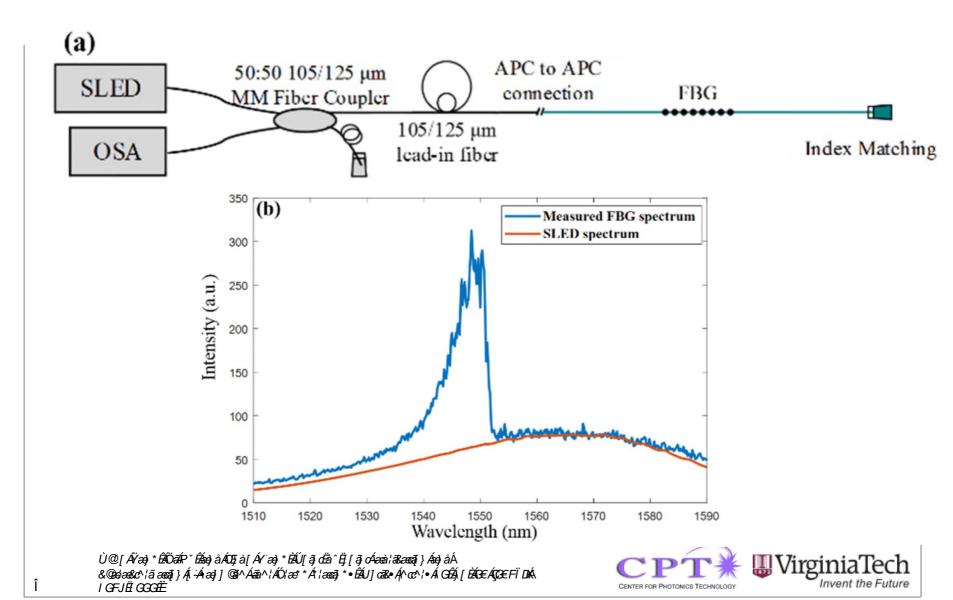




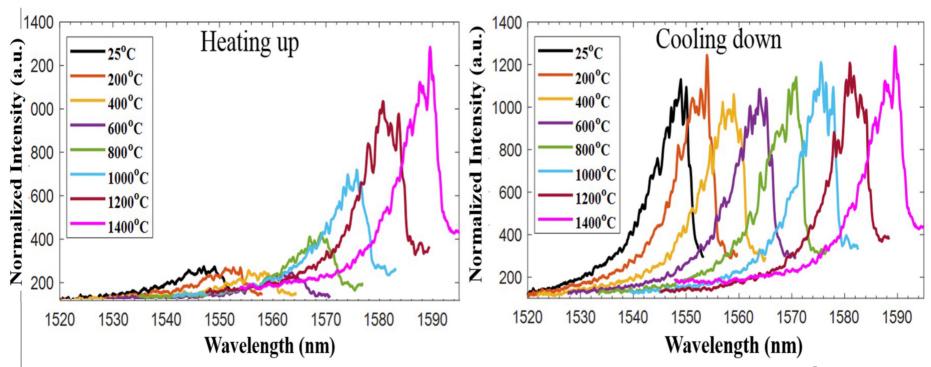


: 6; GYbgcf: UVf]WUhcb

: 6; ≒bhYffc[Uh]cb HYW\\b]ei Y



: 6; 'GYbgcf': UVf]WUhcb 9b\ UbWa YbhcZFYZYWhj]hmij]U'H\ Yfa U'5bbYU]b[



: 6; 'fYZYW]j]lmik Ug'dYfa UbYbhmiYb\ UbWYX'VmÁ UVci h') 'l 'h]a Yg

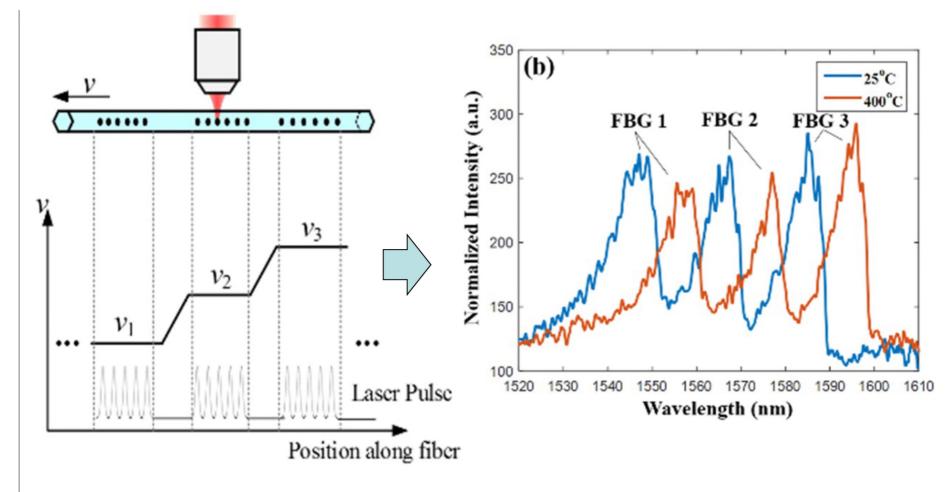
Ÿæj *ÊÛ@[ÊŐãÍP`ÊÁæj åÁŒţ à[Á/æj *ÈÚ[ēj dĒa^Ëj[ēj dÁæà¦&ææāj} Áæj åÁ &@ekæ&c^¦ãææāj} ¼;¼Áæj] @\$^Áæā^¦ÁÓ¦æ**Á*¦ææāj *•ÊÚ] æ&•Á^œ^¦•Á GÊÁj[ĚA GEÁŒFÏ DAÁ GFJË GOOÈ





FBG Sensor Fabrication

Wavelength Multiplexed FBG Array





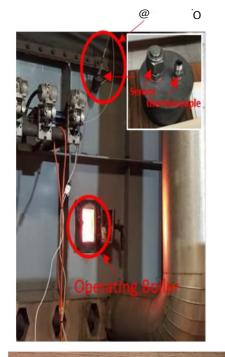


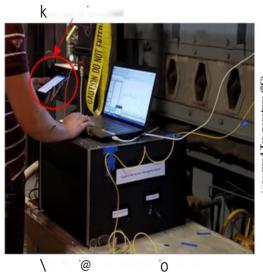
Sapphire Fiber Bragg Grating Field Testing

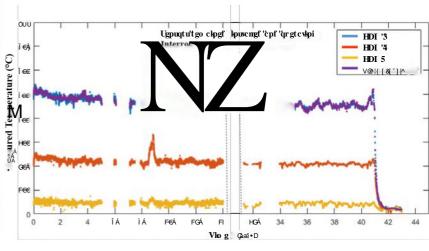


Vj g'r qy gt 'r rcpv. 'cu'uj qy p'lp'Hki wtg'328. 'i gpgtcvgu'cp'cppwcn'uvgco 'qwr w'i tgcvgt' yi cp''; 65'dkmlqp'DVWu0'Vj g'8.472/mlmqy cw. '34.692/xqm'uvgco /wtdlpg/r qy gtgf'' i gpgtcvqt 'r tqf wegu'pgctn{ ''49''o kmlqp''nlmqy cw'j qwtu'qh''gngevtlekx{ ''cppwcm{ 0'Vq''o ggv'' yi gug'f go cpf u. ''yj g'r rcpv'qr gtcvgu'hlxg''dqlmgtu. ''gcej ''qwhlwyf ''y kyj ''uwr gtj gcvgtu'tcvgf'' cv'': 2.222''qt''322.222''r qwpf u'qh''uvgco ''r gt''j qwt0'Vj g''Xkti kplc''Vgej ''Rqy gt''Rrcpv'' *õXkti kplc''Vgej ''Grgevtle''Ugtxleguö+''cnq''ugmu''gngevtlekx{ ''cv'tgvckn'r tlegu''\q'8.222'' tgulf gpvlcn'ewuqo gtu'lp''Drcemudwti . ''XC0

Ô[æ|ÁØã^åÁÓ[ā^¦ÁØã\|åÁ/^•æ]*









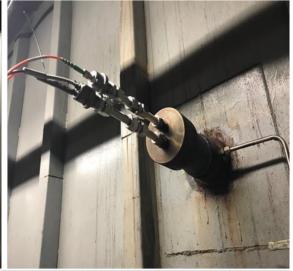


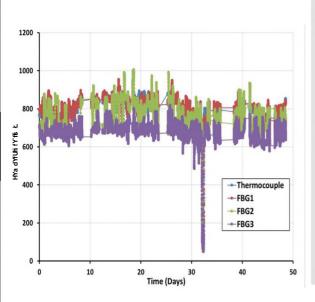
Þæ ¦æ Á Õæ Á Øã ^ å Á Ó[ā ^ ¦ Á Øã \ | å Á V ^ • cā] *

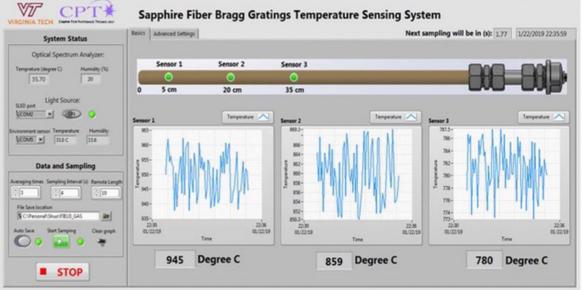
















@A J 'GUdd\]fY':]VYf 'HYgh]b[

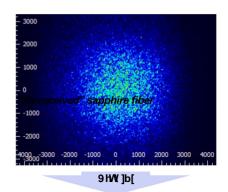
: Uf:]YX'5 bU'ng]g'A Yh cX

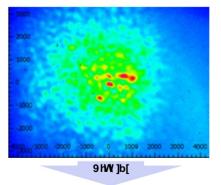
(ÁØæèËæì | åÁ霉 ♂) • ãc Á₁ææc² | } • Á&æi c | ^ åK
ÉÁ Ú ¦ ã ¦ Áq Án c&@3 *
ÉÁ Ú [• cÁn c&@3 * Áæ) åÁ, [| ã @3 *
ÉÁ V@^^Áãã-^ | ^ } cÁ, æç^ | ^ } * c@ ÁQ HG, { ÉÁ Ì GÈ) { ÉÁ Jì GÈ) { EÁ

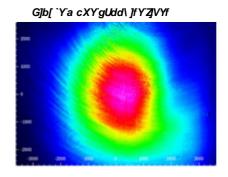
″Á T[åæþÁng o^¦-∞¦^} &^Áæng åÁn*]^¦][•ãuā[}Á?ā\|å•ÁæóÁ %6]^&\|^å-⊬Áæd]]^æbæg}&^

"Á Ü^å & cāt } Á\$ Áåãæ (^c^¦Áæ)åÁ ([åæ Áş[|ˇ{ ^
ÉÁ Þ `{ à^¦Át -Át [^¦Át ^æ)•Á€]^& |^•DÁå^& |^∞

ÉÁ T[åæþÁ§þo^¦~^\^} &^Áæð)åÁn`]^\][•ãæã[}Ásì^ÁæÁ å^&\^æ•^Á§þÁs@^Á,`{à^\Á,~Á`]][\o^åÁ([å^•





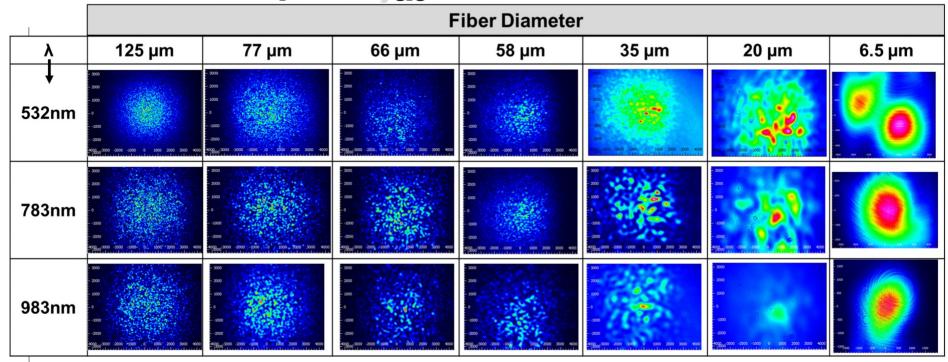






@A J 'GUdd\]fY':]VYf 'HYghb[

: Uf :]YX 5 bU mg]g cZF8 G:



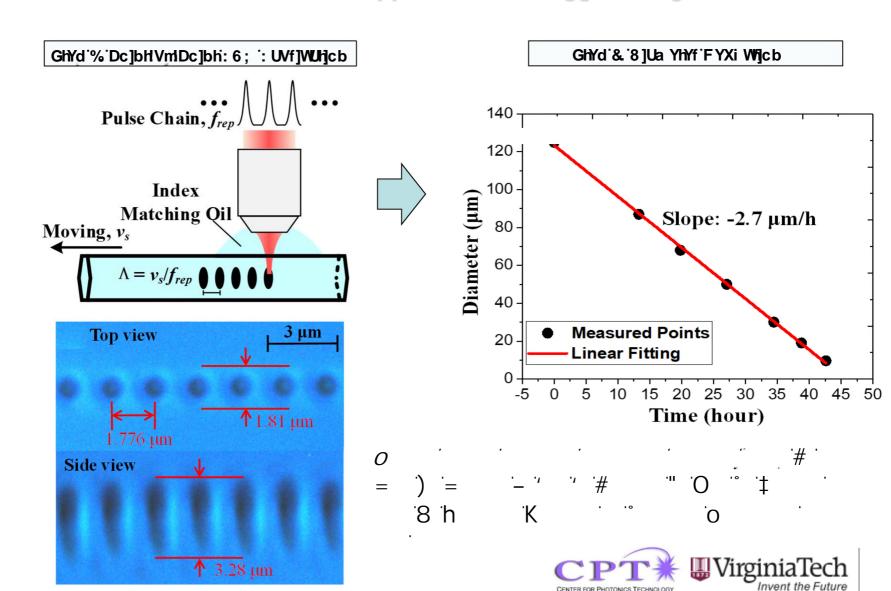
H\Y'IfYbX']b'acXU'jc`iaY'fYXiWMjcb'Zcf'U'fYXiWMjcb']b'ZjVYf'X]UaYhMf'UbXÁ]bWYYUgY']b'kUjY'Yb[h\'U[fYYg'k]h\'h\YcfYhjWU'dfYX]WMjcbg





: 6: GYbgcf: Wf]WUhcb

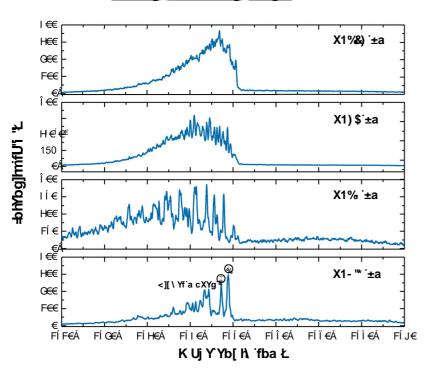
FYXi WYX'8 JUa YHYf'GUdd\ JfY': JVYf'6fU[['; fUh]b[



: 6; GYbgcf DYfZcfa UbWY

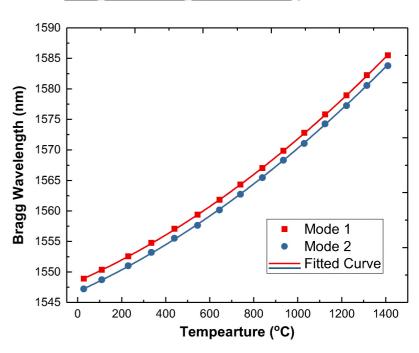
FYXi WYX'8 JUa YhYf'GUdd\ JfY': JVYf'6fU[['; fUh]b[

: 6; 'gdYWfU'fYgdcbgY



FYXi WYX'a cXU'j c`i a Y']a dfcj Yg': 6; Á dYU_'ZJXY]lm

HYa dYfUri fY'XYdYbXYbWY'cZ



8 Ya cbghf UhYX hc hYa dYf Uhi f Y c Z% \$\$, 7 /Á ¢4807 h o 1

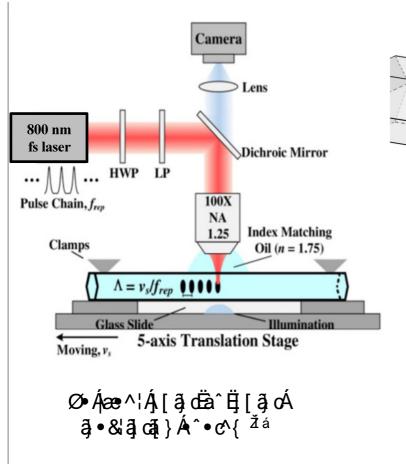
Ÿæ)*ÊÂÛ@[ÊÖæ)?A\ÁP[{æÊÃÕæ;^ÁÚ&&\;^||Ê\$æ)åÁŒ;à[ÁYæ)*È\$Øãà^;ÁÓ;æ**Á;;æãj*Áæà;&ææ^åÆjÁ {æ;'[Ë-ãj*|^Ë;'^•œ;Áæj]@ā^Áãà^;ÊÁU]œ&•Á(^œ^;•ÁiHÊÁ;[ÈÁFÁÇŒ;FÌDAÂ;GÉ;ÍÈ

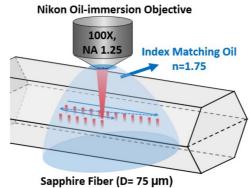


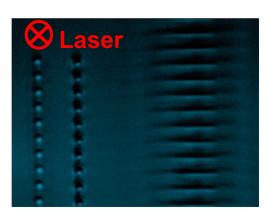


DUfU`Y`:]VYf'6fU[['; fUh]b['fl 6; Ł'GYbgcfgÁ]b'GUdd\]fY:]VYfg

~ÁÚ[¾ dĒa^ Ēļ [¾ dÁş • & 4 ¾ dą) Á Á Á ØÓÕ







=bgWf]VYX`]b`gUdd\]fY`Z]VYf`k]l\ '+) '±a 'X]Ua YhYf`k]l\ 'Ub`Uj YfU[YÁ
dck Yf`cZ' \$\$'±K 'UbX`fYdYh]h]cb`fUhY`cZ) \$\$'<nžWcffYgdcbX]b['bcÁ
g]b[`Y'di `gY`YbYf[mcZ* \$\$'b>žHJ_Yg') ", 'g'hc'ZJVf]WUhY`U') !a a !Á
`cb[': 6; 'k]h\ 'd]hW 'g]nY`cZ%* - + '±a "

- < ÁÚ¦^&ã^Á; [çã;*Á]^^åÁ&[}d[|Á;-Áãà^¦ÁçãæÁ dæ;•|ææā;}Á;cæ*^Á;Á&[}d[|Á;ãæ&@Á;ã^Á;-ÁØÓÕL
- < ÁF €€¢Á, ÃÍËà { ^¦•Ã;}Á, à b & cãç ^ÁQ Á, & •Áæ• ^¦Á ^} ^¦* ^Á@ † @ ¦Ác@æ) Ác@ Ásæ (æ † ^Ác@ ^• @ |åÁ, -Á •Ã;* | ^Ë& | • cæ Á; æ }] @ 3 ^ L
- < Á Øæà ¦ã 8æã | }Á; -Á æ 8æÁ Ø Ó Ő Áæ ÁæÁ á A Á Í Á æð æð Æð Á ã • & ¦ã dã }Á; [ã dÁ }ã [¦{ã È

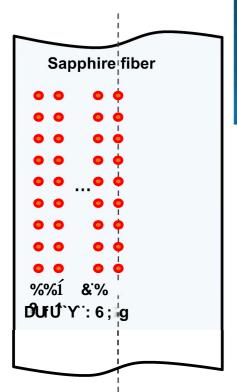
ÕÈ @ÊÕÈ &\ ;^||ÊŒ) * ÊŸ 之 @ Cdh @/thÁ &\$&&:GYd`%) /(+f% Ł(+&(!(+&+"

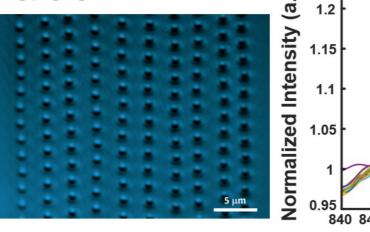


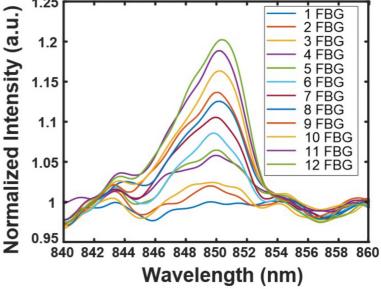


Ö^• ã } Ása) å Ásaà ¦ ã&æaí } Á -Á æbæl/ | ÁØÓÕ•

~ÁÚ[ạ] dầa^Ë;[ạ] ơÁŞ •&¦ạ] cá[} Á; Á; ØÓÕ







DUfU`Y`: 6; g`]bgWf]VYX`k]h\ `gUa Y`d]hW(`g]nY`UbX``Yb[h\ `cb`h\ Y`gUa YÁ`cb[]hi X]bU`dcg]h]cbžYUW(`k]h\ '' '±a ``UhYfU`cZZgYhžk]h\ ': 6; %Ucb[Á Z]VYf`Ul]g`UbX: 6; %&('') '±a `Uk UmiZica `h\ Y`gUdd\]fY`Z]VYf`YX[Y"

″Á Øæà¦ã&æáį}Á, ÁπGÁså^}œã&⇔ÁØÓÕ•Á, ãc@Á, ãc®Á, ãc®Á ã ^Á, ÁπĒÌJÏÁμ{ÊÆs[¦¦^•][}åã,*Á q[Áïc®Á,¦å^¦ÁØÓÕÁS, Átæ]]@ã^Áæà^¦L

‴Á OE;ÁÌÍ€Á){ ÁŠÒÖÁsœ•ÁŘI®ÁA[`'\&^Á[¦ÁS;c^\;|[*ææã[}L

″Á ÞOÜ Ásaa) å Ájāt @Án [ˇ ¦ & ^ ÉÁn [Ás@ ÁZÓÕ Á, ¦ å ^ ¦ Ása Á@at @ \ ÉÁ • ^ • Ái ºÁ, ¦ å ^ ¦ ÁZÓÕ

″Á Ùāt}æþÁæþ{ [•oÁsiçã āā j^Ási^-{¦^Áæà;¦ã&æaā[}Á; -ÁrHÁ;æbæþ|^|ÁØÓÕ•ÉÁsi`^Áq[Á;[[¦Á &[@\¦^}&^Ásæ)åÁ@at@Á;[å^Ásæ]æ&ãcÈ

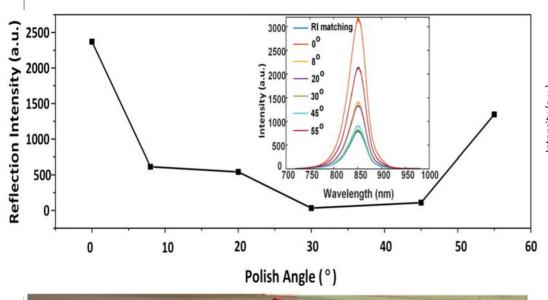
ÕÈÙ@£ÃÕÈÚæ\;'^||ÊÆŒÈY'æ)*ÊŸĖZ@ÁUØÙÊÁU]æ&æÆŒGG

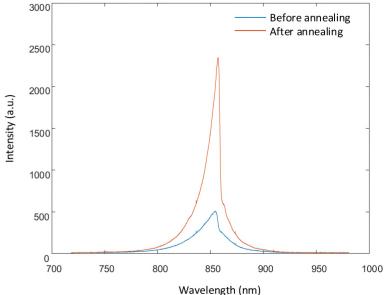


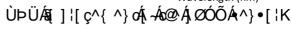


Ö^• at } Ása; a Ása; a &asa; a &asa; a }

 \tilde{A} \tilde{A}





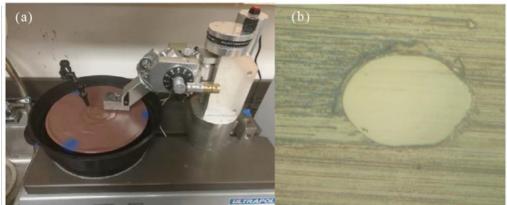


< ÁOE; * |^Á,[|ã @Ás[Á^|ã[ā]æe^Á^} åÁ^-∤^&cā[} ÊÁ¸ão@Á { `|cã[[å^Ár^ccā]*Á;-Á;æ]]@ā^Áāa^¦ÊÁH€»]¦[çãá^•Á æ4{[•ơÁ,[Á^-∤^&cā[}]L

< Á / @ \ { a þÁ a } } ^ a þā * Á · Á a þ] @ ā ^ Á Ø Ó Ó Á [] \ [ç ^ • Á • ` \ - a & ^ Á [\] @ \ [* ^ Á · Á § • & \ ā a ā j a j \ Á [ā o É & a þ Á ^ ~ & & ā ç ^ | ^ Á ā] \ [ç ^ Á ā } a þÁ şā ā ā ā ā È

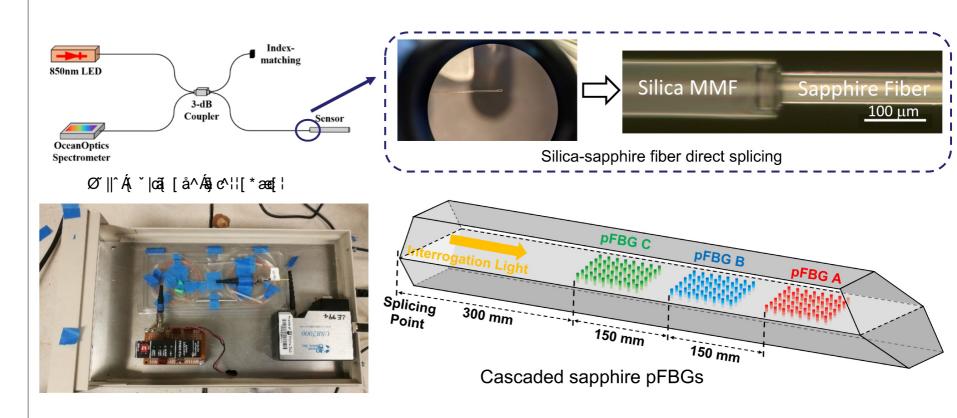






Ôæ 8æå^å Á ØÓÕ•Á[| Ác^{] ^ | æc` | ^ Á ^ } • ã *

ĭÁÔæ•8æå^åÁ;ØÓÕ•Á;ão®Á;∥^Á; ĭ|cã;[å^Á§;c^\;[*æq[;

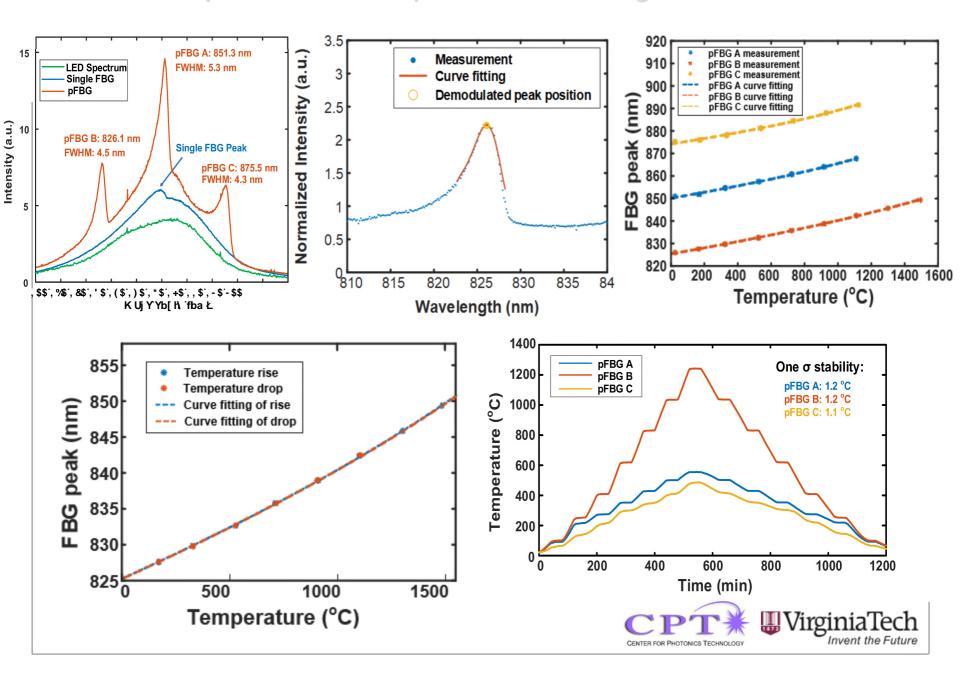


< ÁØ ||^Á(`|cã([å^Ás) c^!;| *æe[¦ÁsæÁÞÖÜÁsæ) åÉÁ, ãc@ÁŠÒÖÁsæ) åÁÔÔÖËææ•^åÁn]^&c[{ ^c^!LÁ < ÁÞÖÜÁsæ) åÁn^•c^{ Á^` ă^•Á@\$ @ÁØÓÕÁ;¦å^¦ÉÁ, @&&@Á^å &^•Ás@ ÁØÓÕÁ;ð} æþÁs; c^}•ãcÊ c@•Á,ØÓÕÁc^&@;ã `^Ásæ) åÁ;c@!ÁÜÞÜÁs[];[ç^{ ^} oÁ; ^c@;å•Ásæ^Á,^&^••æb^È

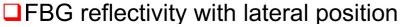


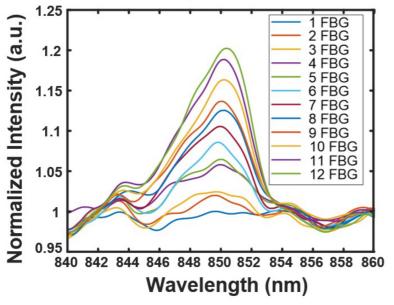


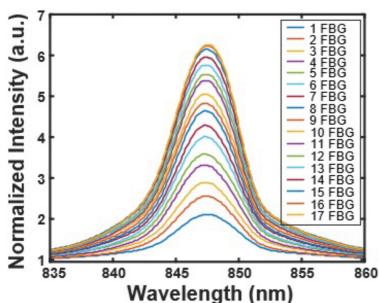
Ôæ &æå^å Á ØÓÕ•Á[| Ác^{] ^ | æc` | ^ Á^ } • ã *



Ö^• at } Ása; a Ásas; absassa[} ÁDas] @ a^Áç• ÁDajabasáT | caj [a^Ázasa^!•







Ùæ]]@4^A/ØÓÕK



- < ÁÙ c^]ÁSjå^¢Á aão^¦Á ÇadãÁ & Jadåå ãj* DÁjão QÁÍÍÁµ{Á & | ¦^L
- < Ú^ækÁØY PTÁdÎĚÁ;{È



- <Ùơ`] Ëà å^¢ÁT€Í EFGÍ ÁT TØL
- < ÁXã ãa | ^ ÁØÓÕÁ; ^ æà Áæe ^ ¦ Á; } ^ ÁØÓÕÁ ~æà | ã&æaã; } L
- < Ú^æ\ÁØY PTÁdÍĚÁ;{ L
- < ÁÛ|[, ^ | Á^ + ^ & cãç ãc Áã ^ Á, ãc@Á |æt* ^ | Áæe^ | æt/Á ~ • ^ cÈ





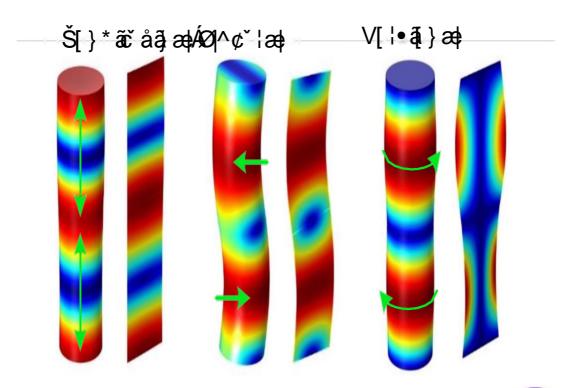
57CIGH=7:=69F'6F5;;;F5H=B; G9BG=B; Á H97<BC@C; M



ŒÓÕÁL^} • 3 * ÁL^ • C^{ •

 $OES[\check{\ } \bullet cast AOaa^! AO! aet * AO! aeta] * A AOEOOO$

 $T = 2^{\hat{A}} \hat{A} = 2^{\hat{A}}$







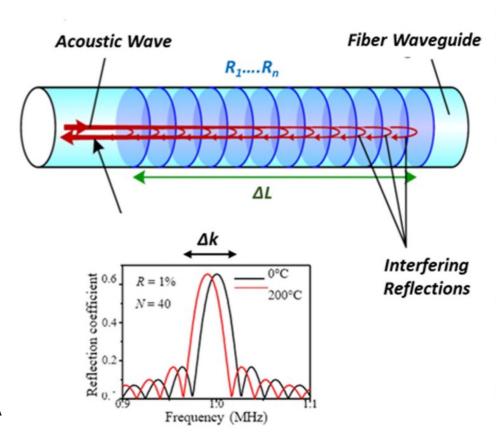
5 Wci ghW: JVYf 6 fU[; fUhb[g

65GT CJ9FJ-9K

"ÁX^¦•æāāţ^Án^}•āj*ÁşãæÁãān^¦ÁÓ¦æ**Á *¦æāāj*•ÁÇCHZÓÕ•DÁn;}Áæð;Áæ&[*•æã&Á -ããn^¦Á¸æç,^**ããn^ÁÇCHZYD
"ÁÙāj*|^Án;[ånÁn;]^¦ææān;}

"Á OEZÓÕÁ&^}dæþÁ¦^``^}& Á[•ãaā]}Á
• @ãæ•Á;![][¦aā]}æþĵÁq[Áv¢c^!}æþÁ
]^¦ċ¦àææā]}•Á*&@Áæ•Á
c^{]^¦ææ*!^ÉAdæā]ÉA;!^••*'!^Á
æ)åÁ&[!![•ã]}

7 Ub VY]a d`Ya YbhYX cb Uk]XYÁ Uff UmcZa UhYf]Ug°



ÖÊFŸÊÁ ŒÁHÊÁ®ÒÒÂÛ^}•[¦•ÁK[|ÁFÌÊÂGHÁŒ€FÌŒ

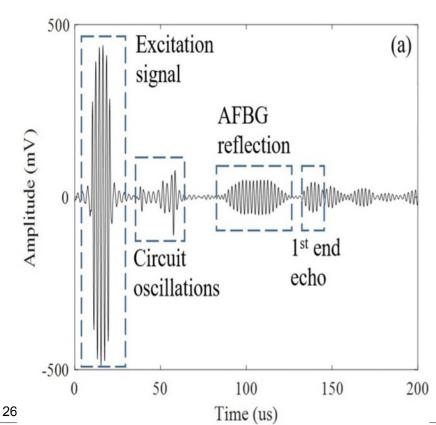


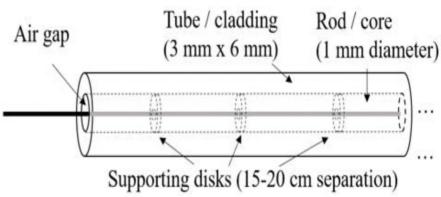


: i gYX'G]\WJ5:6; GYbgcfg

: 56F=75H=CBŽD9F: CFA5B79 5B8 GH56=@HM

OE&[* ca&ad| ^ Á[à * cÁ\L) * •] ^ } å ^ å Ë&[¦ ^ +Á\Ua|a&ad\OE\Y Á\A^ • ât }
 "ÁOE\ÓÕ • Á\B • & a\B ^ å Á\Ç a\B A\ÔU _G Á\A & ^ ¦

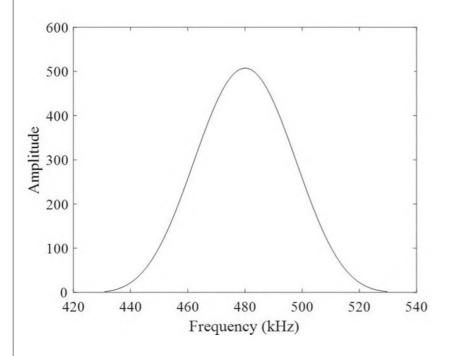


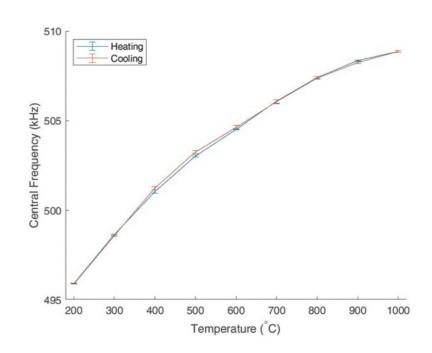


: i gYX'G]\WJ5:6; GYbgcfg

: 56F=75H=CBŽD9F: CFA5B79'5B8'GH56=@HM

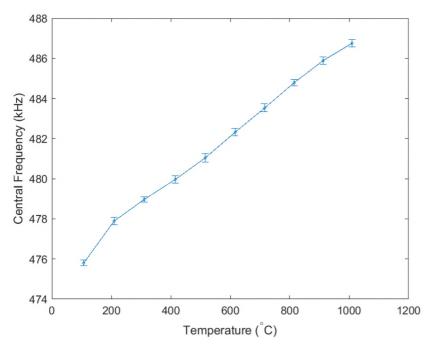
"Á Ú^¦-[¦{ æ} &^Ác^•cã * Á ÁOEOÓÕÁc^{] ^¦æc ¦^Á^^}•c^{}
 ÉÁ V@; { æjÁsc &|ā * ÁS[} å * &c^å Ás[Áæá ægā * { Ác^{}] ^!æc ¦^Á ÁF€€€óÔ
 ÉÁ dFÈHÁ P: Á ^¦ÁF€€ÁÔÆÁNÁ ÁÔÁ^•[|* cã } È
 "Á Tã ã æjÁs@; { æjÁ@•c^!^•ã



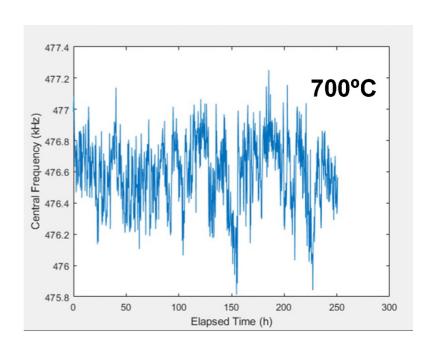


: i gYX'G]\WU5:6; GYbgcfg

: 56F=75H=CBŽD9F: CFA5B79'5B8'GH56=@HM



7 U]VfUh]cb'cZ: i gYX'G]`]WU5: 6; 'GYbgcf

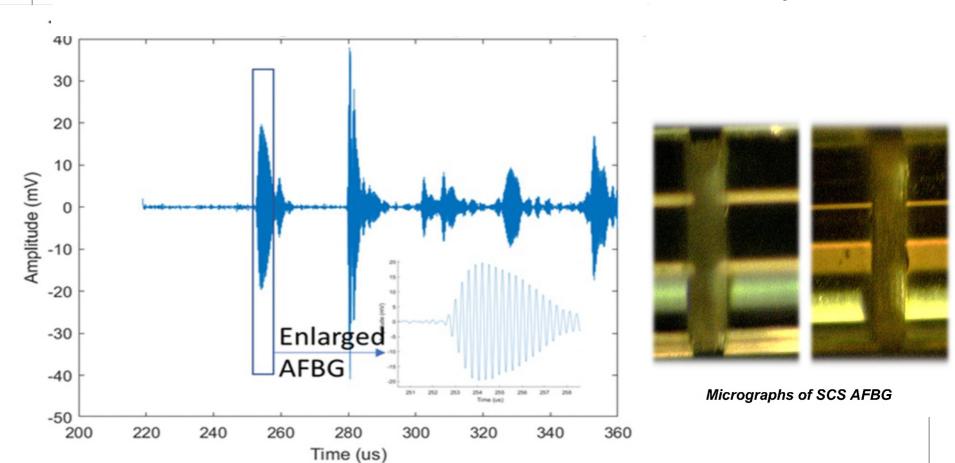


@b['HYfa 'GHJV]']hmHYgh]b['cZ: i gYX'G]']WU5: 6; 'GYbgcf

G]b[Y7fmgHJ GUdd\]fY5:6; GYbgcfg

: 56F=75H=CBŽD9F: CFA5B79 5B8 GH56=@HM

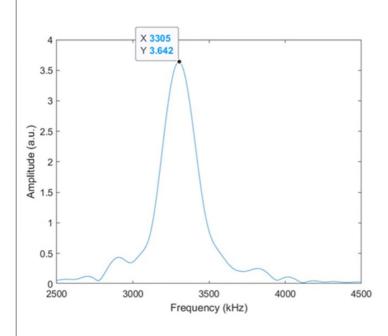
"Á Pã @Á\^``^} & ÁÇIHÈÁT P: DÁÛÔÙÁŒÓÕÁ\^}•[¦
"Á ŒÓÕÁ, æ ÁB, •& ÄB, •& ÄB, åÁçãæÁæÁ^{ ([•^&[] à Áæ•^;
ÉÁ GÍ€Áu{ÁÛÔÙÁãa^; LÁŒÉÁ; å^• KÁ, ^; ã; åÁ; ÆÉÏÁ; { LÁÖ^] œ Q ãà œ ÁFGÁu{ÊD€Á;

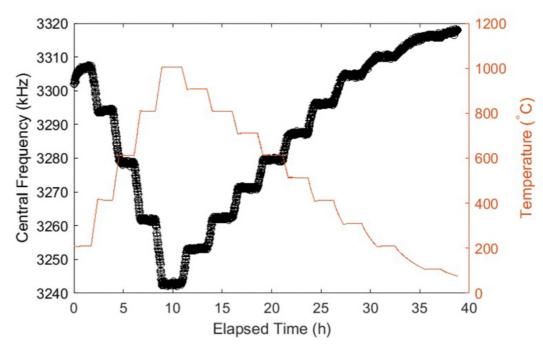


Gb[Y7fmghJ GUdd\]fY5:6; GYbgcfg

: 56F=75H=CBŽD9F: CFA5B79'5B8'GH56=@HM

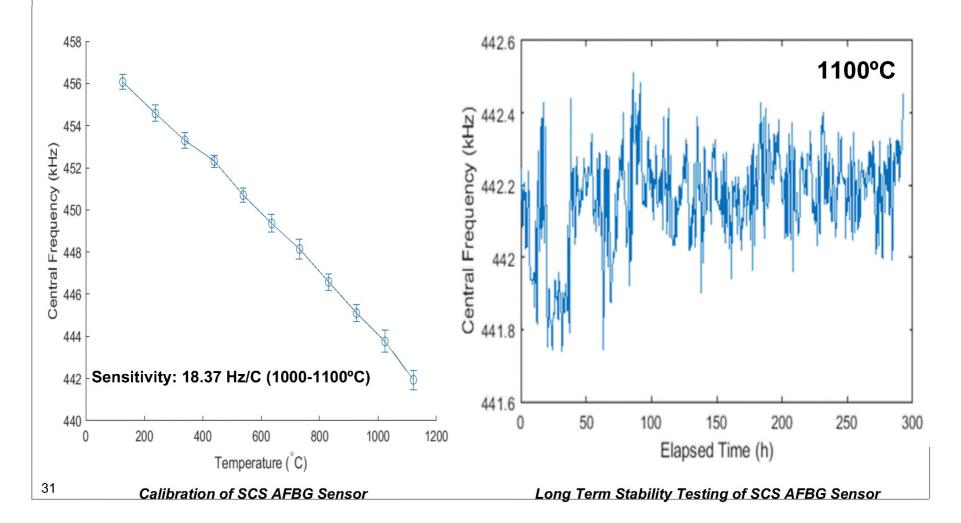
"ÁÔæþãa ¦ææ^å Áq[ÁFG€€óÔÁÇ] Áq[ÁFI€€óÔD
"ÁÙ^} • ãaãção KÁdFÌÁP: ĐÔ





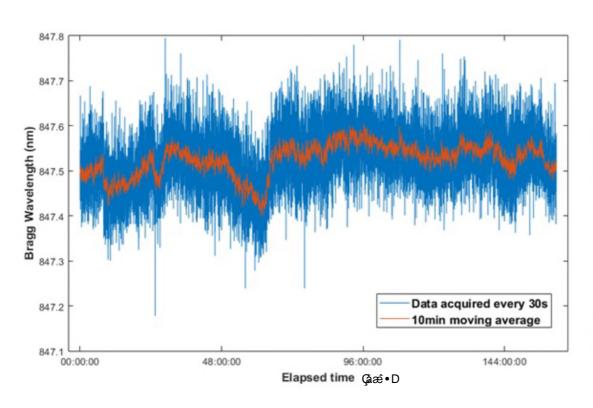
G]b[`Y'7fmgHJ'GUdd\]fY'5:6; 'GYbgcfg

: 56F=75H=CBŽD9F: CFA5B79'5B8'GH56=@HM



Gb[Y7fmghJ GUdd\]fY5:6; GYbgcfg

: 56F=75H=CBZD9F: CFA5B79'5B8'GH56=@HM

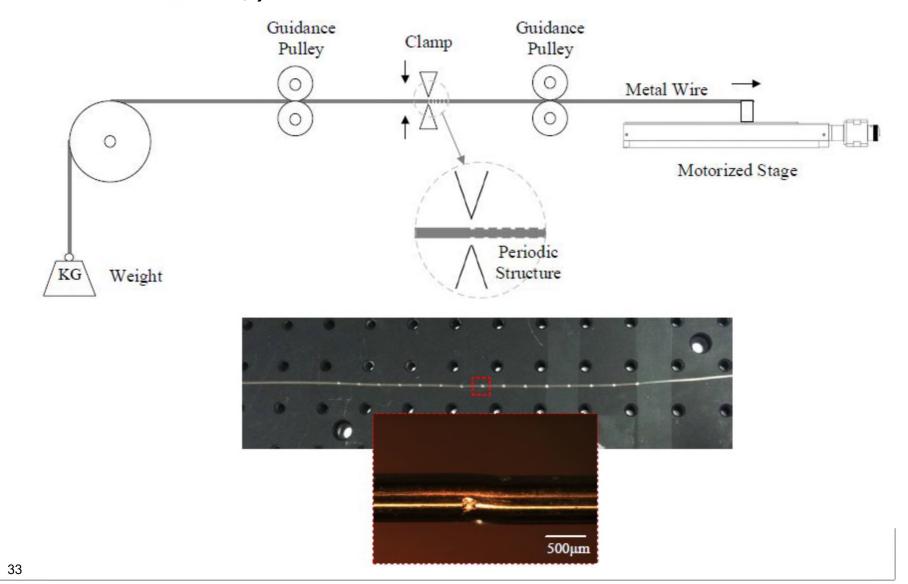






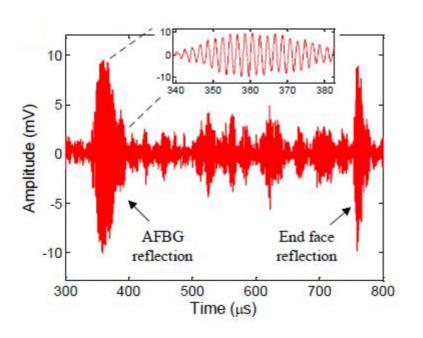
AFBG Fabrication in Metal Wire

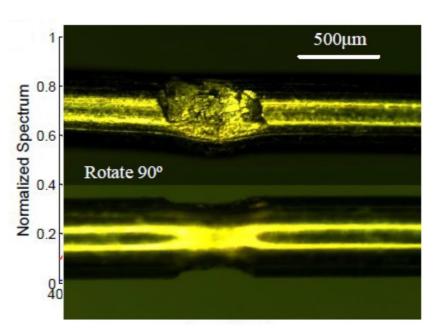
D9 @7 5 B 5 @@CM+,)



5:6;]b A YHJ K]f Y

D9 @7 5 B'5 @@CM'+,)

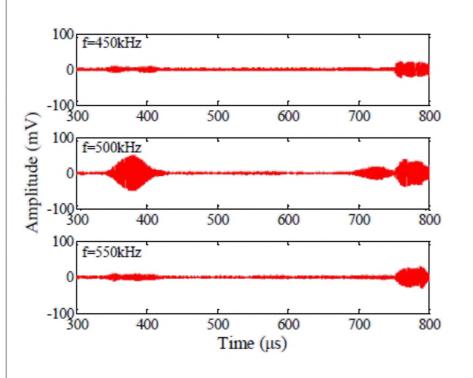


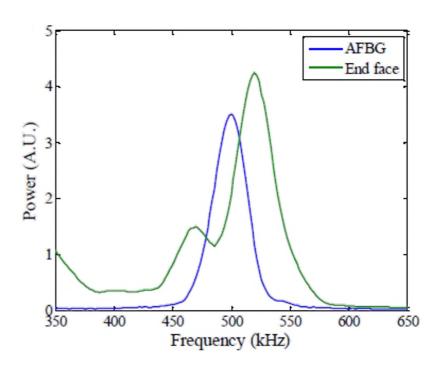


5:6; "b"A YHJ"K JfY

D9 @7 5 B'5 @@CM+,)

"ÁΦΕΦΌΘΑ ἀΛ•āt} ^åΑ (¦Á €€ P:Áβ σ^; [*æða }

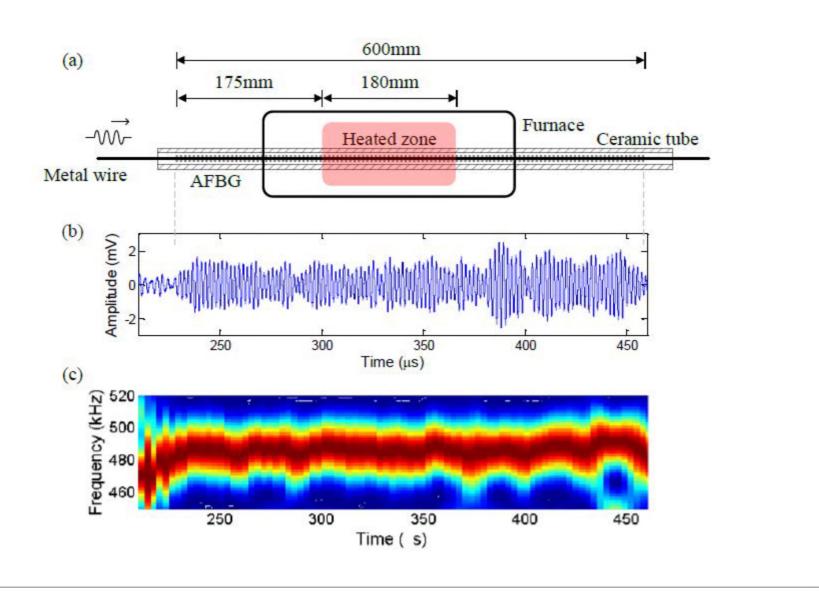




7 cbhbi ci g 5:6; Zcf HYa dYfUri f Y GYbg]b[

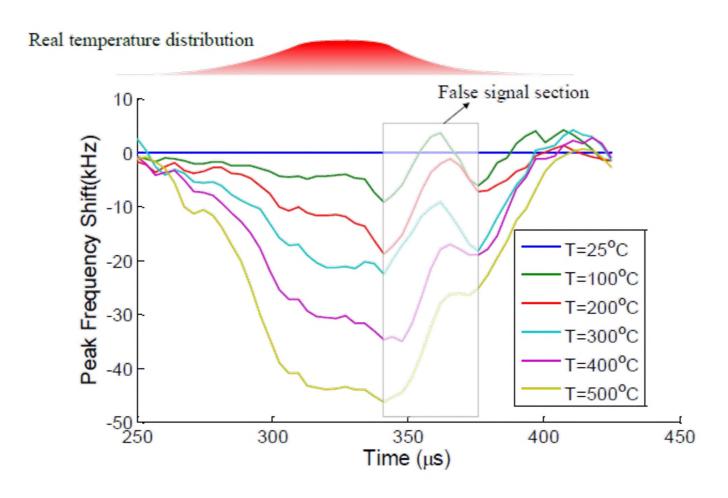
A 9 H5 @K = 9 K 5 J 9; I = 89 D9 @<math>75 B 5 @ CM +,

ΗÎ



7 cbhbi ci g 5:6; Zcf HYa dYf Uhi f Y GYbg]b[

A 9 H5 @K = 9 K 5 J 9; I = 89 D9 @<math>75 B 5 @ CM +,



• : UʻgYʻg][bUʻWUi gYXʻVmigca YʻgmghYa UhjWY`YWff]WUʻbc]gY`UbXÁ WUbʻVYʻfYa cj YXʻk]h\ʻ]a dfcj Ya YbhicZY`YWffcb]WWca dcbYbhg

OE&[* ca&ÁØaa^ | ÁÓ | æ* * ÁÕ | æ*aa * ÁQDEØÓÕ D

```
"ÁÚ[c^} cãaqÁ[¦Á[]^} ā] * Ás@^Á[|`cā[}Á$[{æā]Á]Á, ãs@Ás@^Á
å^ç^|[]{ ^} cÁ[ÁOEDÓÕ•Ása|[] • ÁsaA(`&@Á, ãå^¦Áæ) * ^Á[Á
{æc^¦ãæq+Ás[Á$\^Á$[} • ãå^¦^å
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"ÁTæÁ^|æ¢ÁœÁ^> • ãtãçãt Át Ác@ Á~~~ &c• Át Áææ6 • @Á
^}çãt[}{ ^} œ¢Áæêæà|^• Ás~ ^ Át Ác@ Áææ6ææÁ;] cãææ4Á
] | [] ^ | c Áææ9 * ^ • Áæ6^ Á; [ oÁt ] [ | cæ9 cÉÁ; } | ^ Ác@ Áææ6
] | [] ^ | cãð •
```

"ÁÞ^¸ Á+æ) åà[¢Á, Á,[••ãà|^Á, æe^¦ãæ+ÞÉ+dˇ&cˇ¦^•Áæ) åÁ { [å^•Á&æ) Áà^Á c∄ã^à

