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# High Temperature Superconductor Thin Films At Microwave Frequencies Springer Tracts In Modern Physics 155 Band 155 By Matthias Hein

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nanostrain in  $\text{FeSe}_x\text{Te}_{1-x}$ .  
thermal effects in  
microwave current induced  
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microwave properties of  
high transition temperature.  
the microwave absorption  
of high  $T_c$  superconducting  
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superconductor thin films at

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microwave. thin film growth  
of high  $T_c$  superconductors  
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atomically thin films. thin  
films of YBaCuO high  
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microwave. high  
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superconductive passive  
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modeling and

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characterization of high  $T_c$ .  
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microwave response of  
high transition temperature.  
high temperature  
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measurement and  
modeling of high.  
sequentially evaporated  
thin film  $YBa_2Cu_3O_{7-x}$ .  
preparation and  
characterization of a  
homemade josephson.  
giant microwave absorption  
in fine powders of  
superconductors.  
microwave impedance of  
thin film superconductor  
normal. synthesis of high  
temperature  
superconducting thin films.  
electromagnetic properties  
of thin film lead  
superconductors. chemistry  
of high temperature  
superconductors

**artificially engineered  
nanostrain in  $FeSe_xTe_{1-x}$**   
May 21st, 2020 - crystalline  
phases figure 1 shows a  
schematic diagram of two

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different ce fst thin films  
first if the amount of  
inserted ceo 2 is very small  
2 p smaller than 0 5 unit  
cell nanoscale defects'

**'thermal effects in  
microwave current  
induced weak link**

**May 22nd, 2020 - thermal  
effects in microwave  
current induced weak link  
switching in ybco thin  
films to cite this article j  
wosik et al 2009**

**supercond sci technol 22  
105003 view the article  
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enhancements related  
content topical review a v  
velichko m j lancaster  
and a porch microwave  
applications of high  
temperature  
superconductors'**

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modern physics ser high  
temperature**

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ser high temperature  
superconductor thin  
films at microwave  
frequencies by matthias**

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hein trade cloth at the best online prices at ebay free shipping for many products" a high temperature

superconducting imaging coil for low

May 26th, 2020 - we have built and tested a thin film high temperature superconducting hts surface coil for mri at 0.064t" high temperature superconductor and ferroelectric thin

March 16th, 2020 -

comparison of tbcco and ybco high temperature

superconducting thin films for microwave

applications of the two

pounds t1 2212 is the more useful for mi

crowave munication

applications and is

usually preferred over

ybco for applications that need or desire a working

temperature between 75

and 80 k t1 2212 has the

lowest rs value of any of the hts pounds within

this range of tempera

tures" microwave

properties of high

transition temperature

May 17th, 2020 -

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**microwave properties of  
high transition  
temperature  
superconducting thin  
films final technical  
report to the nasa lewis  
research center contract  
ncc 3 40 dr w l gordon  
department of physics  
case western reserve  
university cleveland oh  
44106 june 21 1991 nasa  
cr 185842 microwave  
properties of n91 26976  
high transition  
temperature'**

**'the microwave  
absorption of high t c  
superconducting thin**  
May 3rd, 2020 - the  
microwave absorption of  
high t c superconducting  
thin film samples article pdf  
available in applied  
magnetic resonance 8 1  
133 146 january 1995 with  
29 reads how we measure  
reads'

**'high temperature  
superconductor thin  
films at microwave**  
May 22nd, 2020 - the book  
develops a prehensive  
understanding of the  
surface impedance of the  
oxide high temperature

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*superconductors in parison  
with the conventional  
superconductor nb3sn  
linear and nonlinear  
microwave responses are  
treated separately both in  
terms of models theories or  
numerical approaches'*

**'modulated optical  
reflectance**

**characterization of**

**May 3rd, 2020 - parisons  
are presented of room  
temperature modulated  
optical reflectance mor  
and low temperature  
electron beam induced  
voltage contrast ebiv  
studies of thin film high  
temperature**

**superconductor hts  
microwave resonators a  
strong correlation is  
shown between mor and  
ebiv measurements  
showing mor to provide a  
room temperature high  
spatial resolution  
indication of hts  
properties'**

**'high temperature  
superconducting thin  
films for microwave**

*March 5th, 2020 -*

*yba2cu3o7 ? and*

*tl2ba2cacu2o8 thin films for*

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*microwave filters were synthesized by pulsed laser deposition and the two step thalliation process substrate quality requirements and the relation of thin film morphology microstructure with microwave surface resistance were discussed*

**'microwave applications of high temperature superconductors**

June 13th, 2018 - for at least eight of the first ten years of high temperature superconductivity it has been clear that one of the earliest areas of application and mercialization of these mate

**'high temperature superconductor thin films at microwave**

**September 22nd, 2019 - linear and nonlinear microwave responses are treated separately high temperature**

**superconductor thin films at microwave frequencies springer**

**tracts in modern physics matthias hein**

**9783540656463 books'**  
**'high temperature superconductivity**

*June 3rd, 2020 - high*

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temperature  
superconductors  
abbreviated high  $T_c$  or HTS  
are operatively defined as  
materials that behave as  
superconductors at  
temperatures above nearly  
73 K 200 C this is in fact  
the lowest temperature  
reachable by liquid nitrogen  
one of the simplest  
coolants in cryogenics all  
superconducting materials  
known at ordinary  
pressures currently work  
far below ambient'

**Josephson effect**

**research in high**

**temperature x dtic ott**

May 13th, 2020 - 1

continuation of thin film  
fabrication and physical  
characterization with further  
development of other  
deposition systems at  
Wayne State and Ford 2  
fabrication of thin films of  
newer high temperature  
superconducting materials  
3 improvement of  
superconducting properties  
and microstructural  
characteristics in these  
films'

**'microwave modeling and  
characterization of high**

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**tc**

*May 16th, 2020 -*

*microwave modeling and  
characterization of high tc  
superconducting thin films  
thamer mousa badarneh  
application of thin films i in  
the microwave device  
where superconducting  
trips are superconducting  
however high temperature  
superconductors hts  
materials discovery in 1986  
considered one of the great  
breakthroughs in the  
history'*

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products for sale ebay**

May 25th, 2020 - high  
temperature

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microwave frequencies by

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**'high temperature**

**superconductor thin**

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**films at microwave  
April 28th, 2020 - format  
book isbn 3540656464  
loc call number q111 e7 v  
155 published berlin new  
york springer c1999'  
'application of high  
temperature  
superconducting thin film  
May 14th, 2020 - high  
temperature  
superconducting devices  
such as radiation  
detectors and passive  
microwave ponents be  
determined before  
significant systems in  
vestment occurs  
research and  
development activities at  
the applied physics  
laboratory aimed at  
implementing such thin  
film devices are  
underway'  
'high temperature  
superconducting thin film  
microwave  
June 2nd, 2020 - high tc  
superconductors in a  
microwave system  
requires development of  
thin films on microwave  
substrates which then  
can be patterned into  
desired micro wave  
circuits such as filters**

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phase shifters ring resonators and delay lines the superconducting thin films for microwave circuits need to be depos" modeling and analysis of high temperature superconducting

May 28th, 2020 - ular thin films show a response peak occurring at a lower temperature and well separated from the bolometric peak measurements indicate that the nonbolometric mode is faster and more sensitive than the bolometric mode analysis of the microwave response including variations 18 of temperature current power and sample granularity'

'high temperature superconductivity in perspective

May 17th, 2020 - high temperature superconductivity in perspective april 1990 ota e 440 ntis order pb90 253790 peting technologies e g the

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**more mature low temperature superconductors and in thin films of hts material can be used to connect logic and'**

**'high temperature superconductor thin films at microwave**

*May 25th, 2020 - get this from a library high temperature*

*superconductor thin films at microwave frequencies matthias hein'*

**'a high temperature superconductor microwave filter working**

*May 14th, 2020 - a high temperature*

*superconductor microwave filter for the sardinia radio telescope fig 1 on 30 september 2013 the inaugural ceremony of srt took place in the presence of the highest local national and international authorities additionally 2000 people from the neighboring municipalities attended the inauguration'*

**'high temperature superconductor thin films at microwave**

**May 17th, 2020 - the book develops a prehensive**

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**understanding of the surface impedance of the oxide high temperature superconductors in parison with the conventional superconductor nb3sn linear and nonlinear microwave responses are treated separately both in terms of models theories or numerical approaches and in terms of experimental results" *high temperature superconductor films and devices for the***

*May 23rd, 2020 - high temperature*

*superconductor hts thin films can be used to construct microwave devices such as filters and antennas with superior performance we show how the films can be manufactured using a sol gel method which has the advantage of being able to produce large area films quickly at low cost on simple equipment'*

**'high temperature superconductor thin films at microwave**

*May 23rd, 2020 - high temperature*

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microwave frequencies by  
matthias hein  
9783642084959 available  
at book depository with free  
delivery worldwide'*

**'high temperature  
superconductor thin  
films at microwave**

*February 9th, 2020 - high  
temperature*

*superconductor thin films at  
microwave frequencies  
matthias hein auth the  
book develops a  
prehensive understanding  
of the surface impedance  
of the oxide high  
temperature*

*superconductors in parison  
with the conventional  
superconductor  $\text{Nb}_3\text{Sn}$ 'a  
**broadband method for  
the measurement of the  
surface***

**May 18th, 2020 -**

**parameter space of  
superconductors  
previously inaccessible  
with other measurement  
techniques the power of  
the technique is  
illustrated by  
measurements on thin  
films of the high  
temperature**



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**superconductor yba cu  
07 8 i introduction  
microwave surface  
impedance  
measurements provide a'**

**'high temperature  
superconductor thin  
films at microwave  
June 2nd, 2020 - get this  
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temperature  
superconductor thin  
films at microwave  
frequencies matthias  
hein'**

**'thin film growth of high  
tc superconductors by  
microwave**

April 8th, 2020 - thin film  
growth of high tc  
superconductors by  
microwave plasma assisted  
reactive evaporation  
volume 223 akira tukamoto  
masahiko hiratani toshiyuki  
aida yoshinobu tarutani  
kazumasa takagi" **high  
temperature**

**superconductivity in  
atomically thin films**

*April 13th, 2020 - a route to  
developing ultimate  
superconducting nano  
devices a research group  
at tohoku university has  
succeeded in fabricating an*

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*atomically thin high temperature superconductor film with a superconducting transition temperature  $T_c$  of up to 60 K*  
*213 C the team led by Prof. Takashi Takahashi, WPI AIMR and Asst. Prof. Kosuke Nakayama, Dept. of Physics also established the method to*

**'thin films of YBaCuO high temperature superconductor grown**  
**March 11th, 2020 - the physicochemical properties of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> ? high temperature superconductor exclude designing standard magnetron sputterers and adopting standard film growth conditions that would ensure good and highly reproducible results a simple and flexible magnetron sputterer making it possible to grow high quality films with a critical temperature of 90 K a critical current density of 4 MA'**  
***'thin film growth of high superconductors by microwave***

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*April 4th, 2020 - thin film growth of high tc superconductors by microwave plasma assisted reactive evaporation akira tukamoto masahiko hiratani toshiyuki aida yoshinobu tarutani and kazumasa takagi central research laboratory hitachi ltd kokubunji tokyo 185 japan abstract'*

**'high temperature superconductive passive microwave devices**

May 2nd, 2020 - two important classes of passive superconductive microwave devices are described these devices have been demonstrated using thin films of the high temperature superconductor  $YBa_2Cu_3O_{7-x}$  the devices include tapped delay line transversal filters with multigigahertz bandwidths and time bandwidth products as large as 30 and narrowband less than 3 bandwidth microstrip filters'

**'high temperature semiconductor process**

**May 16th, 2020 - high temperature**

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**superconductor films for microwave devices are ideal as microwave losses are far below that of copper substrate heating unit is made of inconel high temperatures reached by the heater are key to depositing superconducting thin films"microwave modeling and characterization of high tc**

April 18th, 2020 - because of the high critical temperature  $T_c$  that the new superconductors can reach thin films can be used in a number of technological applications one of the major applications of thin films is in the microwave devices where superconducting strips are used as resonators filters delay lines etc the importance of the superconductors resides in the low losses incurred during the "***superconducting thin films ccny microwave lab*** February 19th, 2019 - *superconducting thin films objectives the recent*

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*impressive progress in the mbe growth of high temperature single layer superconductors in oxide heterostructures opens exciting possibilities for novel sensors*

*superconducting hot electron nano bolometers that may lead to potential breakthroughs in modern thz sensing and ir fiber'*

**'microwave response of high transition temperature**

**April 28th, 2020 - we have studied the microwave response of  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ ,  $\text{BiSrCaCuO}$  and  $\text{TlBaCaCuO}$  high transition temperature**

**superconducting hts thin films by performing power transmission measurements these measurements were carried out in the temperature range of 300 k to 20 k and at frequencies within the range of 30 to 40**

**ghz"high temperature superconductor thin films at microwave**

**May 22nd, 2020 - high temperature**

**superconductor thin films at**

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microwave frequencies  
series springer tracts in  
modern physics vol 155  
updated and prehensive  
review of the state of the  
art the book develops a  
prehensive understanding  
of the surface impedance  
of the oxide high  
temperature  
superconductors in parison  
with the conventional  
superconductor'

**'superconductor  
products for sale ebay  
June 2nd, 2020 - get the  
best deals on  
superconductor when  
you shop the largest  
online selection at ebay  
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frequencies by hein new  
3 new amp refurbished  
from 351 11 watch  
superconductor  
technology applications  
to microwave electro  
optics electrical 165 22 3  
99 shipping watch  
results'**  
**'mgo thin film dspace mit  
home  
May 22nd, 2020 - thin  
films and silicon grow at**

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**relatively low temperatures and act as diffusion barriers between them mgo thin films have recently attracted much attention for their potential application as a chemically stable buffer layer for high temperature superconductor and ferroelectric thin films in addition mgo has a low dielectric constant for microwave response measurement and modeling of high**

May 31st, 2020 - we report here a model of a high temperature

superconducting detector response to microwaves the goal of the model is to approximate based on microscopic theoretical results the measured response of a

superconducting detector to microwave frequency over a wide temperature range from zero up to the critical temperature of the superconductor  $t_c$

***sequentially evaporated thin film  $yba_2cu_3o_{7-x}$***

*April 29th, 2020 - abstract*

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*there is great interest in the application of thin film high temperature superconductors in high frequency electronic circuits a ring resonator provides a good test vehicle for assessing the microwave losses in the superconductor and for comparing films made by different techniques'*

**'preparation and characterization of a homemade josephson April 17th, 2020 - a homemade josephson junction was successfully obtained using a superconductor thin film of the bscco system the film was deposited on a lanthanum aluminate produced from a commercial powder with a nominal composition  $\text{Bi}_{1.8}\text{Pb}_{0.4}\text{Sr}_2\text{CaCu}_2\text{O}_x$  was thermally treated by a domestic microwave oven" *giant microwave absorption in fine powders of superconductors***

*May 19th, 2020 - enhanced microwave absorption larger than that in the*

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*normal state is observed in fine grains of type ii superconductors mgb 2 and k 3 c 60 for magnetic fields as small as a few of the upper'*

**'microwave impedance of thin film superconductor normal**

**March 10th, 2020 - the temperature dependence of the linear electrodynamic response of thin film superconductor mon normal metal al hybrid structures with a high conductivity ratio in the normal state has been theoretically and experimentally investigated low frequency measurements of the coefficient of mutual induction of two coils with a sample placed between them indicate an increase in the magnetic'**

**'synthesis of high temperature superconducting thin films**

*May 6th, 2020 - the most widely used technique to obtain high temperature*

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*superconducting htsc thin films at present i e the in situ method has the disadvantage of heating the substrate up to 700 800 c this paper proposes a novel low temperature method for htsc synthesis that is capable of producing new types of multilayer structures the technique is based on the use of microwave mw field'*

**'electromagnetic properties of thin film lead superconductors**

April 18th, 2020 - article  
osti 6231601 title

electromagnetic properties  
of thin film lead

superconductors author

moriyama k abstractnote

the dependence of critical  
film magnetic field  $h_{sub} c_f$   
on temperature thickness  
and surface texture of lead  
superconducting films was  
investigated as well as the  
relationship between the  
applied magnetic field and  
the applied current at the  
critical field'

**'chemistry of high temperature superconductors**

April 14th, 2020 - field  
modulated microwave

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*absorption in high  
temperature  
superconducting oxides m  
puri amp I kevan high  
temperature  
superconductor thin films  
by pulsed laser ablation s b  
ogale magnetic properties  
and field modulated  
microwave absorption of  
yba 2 cu 3 o 7 thin films c  
schlenker et al*

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